```
BLAST score
                   419
                · 3.0e-41
E value
Match length
                   121
                   71
% identity
NCBI Description
                 (Y13156) ferrochelatase [Arabidopsis thaliana]
Seq. No.
                   140160
Seq. ID
                  LIB24-116-Q1-E1-E6
Method
                   BLASTX
NCBI GI
                   g2104538
BLAST score
                   710
E value
                   3.0e-75
Match length
                   142
% identity
                   49
NCBI Description
                   (AF001308) AtKAP alpha [Arabidopsis thaliana]
Seq. No.
                   140161
Seq. ID
                  LIB24-116-Q1-E1-F4
Method
                  BLASTN
NCBI GI
                   g4741184
BLAST score
                   405
E value
                   0.0e + 00
Match length
                   428
% identity
                   100
NCBI Description
                  Arabidopsis thaliana DNA chromosome 3, BAC clone T23J7
                   (ESSA project)
Seq. No.
                   140162
Seq. ID
                  LIB24-116-Q1-E1-H3
Method
                  BLASTX
NCBI GI
                   g4559384
BLAST score
                  223
E value
                   3.0e-18
Match length
                  81
% identity
NCBI Description
                   (AC006526) unknown protein [Arabidopsis thaliana]
Seq. No.
                  140163
Seq. ID
                  LIB24-116-Q1-E1-H4
Method
                  BLASTN
NCBI GI
                  g3869067
BLAST score
                   359
E value
                   0.0e+00
Match length
                  359
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MCK7, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140164
Seq. ID
                  LIB24-117-Q1-E1-A7
Method
                  BLASTN
NCBI GI
                  q4678258
                  225
BLAST score
E value
                  1.0e-123
Match length
                  317
% identity
                  93
NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone F617
```

Seq. No.

Seq. ID

140170

LIB24-117-Q1-E1-F2

## (ESSA project) Seq. No. 140165 Seq. ID LIB24-117-Q1-E1-C10 BLASTN Method NCBI GI g3449331 BLAST score 153 E value 9.0e-81 Match length 241 % identity 83 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MNC17, complete sequence [Arabidopsis thaliana] Seq. No. 140166 LIB24-117-Q1-E1-D12 Seq. ID Method BLASTN NCBI GI g4757415 BLAST score 56 E value 1.0e-22 Match length 135 89 % identity Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MYN21, complete sequence Seq. No. 140167 LIB24-117-Q1-E1-D4 Seq. ID Method BLASTN NCBI GI q2252848 BLAST score 368 E value 0.0e + 00Match length 372 % identity 100 Arabidopsis thaliana BAC TM018A10 NCBI Description 140168 Seq. No. Seq. ID LIB24-117-Q1-E1-D8 Method BLASTX NCBI GI q4539340 321 BLAST score E value 8.0e-30 Match length 60 % identity (AL035539) putative protein [Arabidopsis thaliana] NCBI Description 140169 Seq. No. Seq. ID LIB24-117-Q1-E1-E4 Method BLASTN NCBI GI q4662609 BLAST score 68 E value 2.0e-30 Match length 121 90 % identity Genomic sequence for Arabidopsis thaliana BAC F10A5, NCBI Description complete sequence

```
Method
                  BLASTN
NCBI GI .
                  g4725940
BLAST score
                  221
E value
                  1.0e-121
Match length
                  321
                  100
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T1P17
                  (ESSA project)
Seq. No.
                  140171
Seq. ID
                  LIB24-118-Q1-E1-B2
Method
                  BLASTX
NCBI GI
                  g479831
BLAST score
                  628
E value
                  1.0e-65
                  137
Match length
                  91
% identity
NCBI Description high mobility group protein - Arabidopsis thaliana
                  140172
Seq. No.
                  LIB24-118-Q1-E1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2980764
BLAST score
                  245
E value
                  8.0e-21
Match length
                  59
                  73
% identity
                 (AL022198) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140173
                  LIB24-118-Q1-E1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2746341
BLAST score
                  664
E value
                  6.0e-70
Match length
                  137
                  91
% identity
NCBI Description (AF037590) ATA27 [Arabidopsis thaliana]
Seq. No.
                  140174
Seq. ID
                  LIB24-118-Q1-E1-C8
Method
                  BLASTX
NCBI GI
                  g4206767
BLAST score
                  155
E value
                  3.0e-10
                  26
Match length
% identity
                  (AF104330) glycine-rich protein 3 short isoform
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  140175
Seq. ID
                  LIB24-118-Q1-E1-D10
                  BLASTN
Method
NCBI GI
                  g3449326
BLAST score
                  327
E value
                  0.0e+00
Match length
                  363
```

```
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                   K19M22, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140176
Seq. ID
                   LIB24-118-Q1-E1-E12
Method
                   BLASTN
NCBI GI
                   g2645198
BLAST score
                   60
E value
                   4.0e-25
Match length
                   228
                   89
% identity
                   Arabidopsis thaliana chromosome I BAC T26J12 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
Seq. ID
                   LIB24-118-Q1-E1-E5
Method
                   BLASTX
NCBI GI
                   g124871
BLAST score
                   215
E value
                   3.0e-17
Match length
                   86
                   50
% identity
                   INORGANIC PYROPHOSPHATASE (PYROPHOSPHATE PHOSPHO-HYDROLASE)
NCBI Description
                   (PPASE) >gi_67792_pir__PWVKL inorganic pyrophosphatase (EC 3.6.1.1) - yeast (Kluyveromyces marxianus var. lactis)
                   >gi_2903_emb_CAA32446_ (X14230) inorganic pyrophosphatase
                   (AA 1-287) [Kluyveromyces lactis]
Seq. No.
                   140178
Seq. ID
                   LIB24-118-Q1-E1-F8
Method
                   BLASTX
NCBI GI
                   g3875451
BLAST score
                   243
E value
                   1.0e-20
Match length
                   120
% identity
                   38
NCBI Description
                   (Z66496) cDNA EST EMBL:D71941 comes from this gene; cDNA
                   EST EMBL:D74691 comes from this gene; cDNA EST EMBL:D76330
                   comes from this gene; cDNA EST EMBL: D65192 comes from this
                   gene; cDNA EST EMBL:D68540 comes from this gene; cDN
Seq. No.
                   140179
Seq. ID
                   LIB24-118-Q1-E1-G2
Method
                   BLASTX
NCBI GI
                   g452593
BLAST score
                   485
E value
                   6.0e-49
                   137
Match length
% identity
NCBI Description
                   (D21814) ORF [Lilium longiflorum]
Seq. No.
                   140180
Seq. ID
                   LIB24-118-Q1-E1-H4
Method
                   BLASTN
NCBI GI
                   q4096078
BLAST score
```

NCBI GI

```
2.0e-24
E value
                  97
Match length
                  97
% identity
                  Arabidopsis thaliana chromosome I BAC T5A14 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  140181
Seq. No.
Seq. ID
                  LIB24-119-Q1-E1-B7
Method
                  BLASTX
NCBI GI
                  q585536
BLAST score
                  655
                  6.0e-69
E value
Match length
                  122
% identity
                  99
                  MYROSINASE PRECURSOR (SINIGRINASE) (THIOGLUCOSIDASE)
NCBI Description
                  >gi 1362006 pir S56653 thioglucosidase (EC 3.2.3.1) -
                  Arabidopsis thaliana >gi 304115 (L11454) thioglucosidase
                  [Arabidopsis thaliana] >gi 871990 emb_CAA55786_ (X79194)
                  thioglucosidase [Arabidopsis thaliana]
Seq. No.
                  140182
Seq. ID
                  LIB24-119-Q1-E1-D1
Method
                  BLASTX
NCBI GI
                  q4585966
BLAST score
                  229
E value
                  4.0e-19
Match length
                  50
% identity
                   (AC005287) Putative dihyrdolipoamide acetyltransferase
NCBI Description
                   [Arabidopsis thaliana]
                  140183
Seq. No.
                  LIB24-119-Q1-E1-D6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1145697
BLAST score
                  537
E value
                  4.0e-55
                  108
Match length
% identity
                  55
                   (U39485) delta tonoplast integral protein [Arabidopsis
NCBI Description
                  thaliana]
                  140184
Seq. No.
                  LIB24-119-Q1-E1-G6
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4220643
BLAST score
                  65
                  3.0e-28
E value
                  238
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MWD22, complete sequence [Arabidopsis thaliana]
                  140185
Seq. No.
                  LIB24-119-Q1-E1-H4
Seq. ID
Method
                  BLASTN
```

q3033373

```
BLAST score
                   132
                   3.0e-68
E value
Match length
                   184
% identity
                   93
                   Arabidopsis thaliana chromosome II BAC F19I3 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140186
Seq. ID
                   LIB24-120-Q1-E1-A4
Method
                   BLASTN
NCBI GI
                   g4757414
BLAST score
                   35
E value
                   3.0e-10
Match length
                   95
                   74
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MYF24, complete sequence
Seq. No.
                   140187
Seq. ID
                   LIB24-120-Q1-E1-B2
Method
                   BLASTN
NCBI GI
                   q16302
BLAST score
                   72
E value
                   3.0e - 32
Match length
                   534
% identity
                   23
                  A.thaliana mRNA encoding glycine rich protein
NCBI Description
Seq. No.
                   140188
Seq. ID
                   LIB24-120-Q1-E1-B5
Method
                   BLASTN
NCBI GI
                   g2264317
BLAST score
                   155
E value
                   4.0e-82
Match length
                   163
% identity
                   99
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MUG13, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140189
Seq. ID
                   LIB24-120-Q1-E1-D10
Method
                   BLASTN
NCBI GI
                   g3702728
BLAST score
                   135
                   3.0e-70
E value
Match length
                   167
% identity
                   95
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K19M13, complete sequence [Arabidopsis thaliana]
                   140190
Seq. No.
Seq. ID
                   LIB24-120-Q1-E1-E2
Method
                   BLASTN
NCBI GI
                   g4512690
BLAST score
                   148
                   1.0e-77
E value
Match length
                   405
```

```
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F11A3 genomic
                   sequence, complete sequence
Seq. No.
                   140191
Seq. ID
                  LIB24-120-Q1-E1-E4
Method
                  BLASTX
NCBI GI
                   g1785851
BLAST score
                   159
                   9.0e-11
E value
Match length
                   61
                   51
% identity
NCBI Description
                   (D50692) c-myc binding protein [Homo sapiens]
                  >gi 2443310 dbj BAA22408 (AB007191) AMY-1 [Homo sapiens]
Seq. No.
                  140192
Seq. ID
                  LIB24-120-Q1-E1-H1
Method
                  BLASTX
NCBI GI
                  g4406807
BLAST score
                   471
E value
                   2.0e-47
Match length
                  93
                  100
% identity
                   (AC006201) putative elongation factor beta-1 [Arabidopsis
NCBI Description
                  thaliana]
                  140193
Seq. No.
Seq. ID
                  LIB24-121-Q1-E1-B12
Method
                  BLASTX
NCBI GI
                  q4678297
BLAST score
                  253
E value
                   6.0e-22
Match length
                  108
% identity
                  50
NCBI Description
                   (AL049655) protein disulfide-isomerase-like protein
                   [Arabidopsis thaliana]
                  140194
Seq. No.
Seq. ID
                  LIB24-121-Q1-E1-E5
Method
                  BLASTN
NCBI GI
                  g2494110
BLAST score
                  61
E value
                  3.0e-26
Match length
                  105
                  90
% identity
                  Sequence of BAC T1G11 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140195
Seq. ID
                  LIB24-121-Q1-E1-F12
Method
                  BLASTX
                  g3874447
NCBI GI
BLAST score
                  179
E value
                  4.0e-13
                  121
Match length
% identity
                  (Z81039) predicted using Genefinder; cDNA EST EMBL:T01209
NCBI Description
```

comes from this gene; cDNA EST yk278a11.3 comes from this gene; cDNA EST yk278a11.5 comes from this gene; cDNA EST yk308a9.3 comes from this gene; cDNA EST yk308a9.5 com

```
140196
Seq. No.
Seq. ID
                   LIB24-121-Q1-E1-G4
Method
                   BLASTN
NCBI GI
                   g2245073
BLAST score
                   139
E value
                  2.0e-72
                   272
Match length
                   93
% identity
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                   fragment No
Seq. No.
                   140197
Seq. ID
                   LIB24-121-Q1-E1-G9
Method
                   BLASTN
NCBI GI
                   g3212846
BLAST score
                   94
E value
                   2.0e-45
Match length
                   241
                   85
% identity
                   Arabidopsis thaliana chromosome II BAC F6E13 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140198
                   LIB24-122-Q1-E1-A10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1708464
                   422
BLAST score
E value
                   1.0e-41
Match length
                   134
% identity
                   62
NCBI Description
                   PUTATIVE DIHYDROXY-ACID DEHYDRATASE PRECURSOR (DAD)
                   (2,3-DIHYDROXY ACID HYDROLYASE) >gi 1213255 emb CAA93689
                   (Z69795) unknown [Schizosaccharomyces pombe]
Seq. No.
                   140199
Seq. ID
                   LIB24-122-Q1-E1-A7
Method
                   BLASTN
NCBI GI
                   g3821780
BLAST score
                   25
                   1.0e-04
E value
                   49
Match length
% identity
                   51
NCBI Description
                  Xenopus laevis cDNA clone 27A6-1
                   140200
Seq. No.
Seq. ID
                   LIB24-122-Q1-E1-B1
Method
                   BLASTN
NCBI GI
                   g2749918
BLAST score
                   20
                   2.7e-01
E value
Match length
                   218
                   80
% identity
                  Arabidopsis thaliana chromosome I BAC F3I6 genomic
NCBI Description
```

Seq. ID

#### Seq. No. 140201 LIB24-122-Q1-E1-B8 Seq. ID Method BLASTX NCBI GI g3983663 BLAST score 211 E value 2.0e-17 Match length 69 % identity 62 (AB011270) importin-betal [Oryza sativa] NCBI Description 140202 Seq. No. Seq. ID LIB24-123-Q1-E1-A8 Method BLASTN NCBI GI q4589435 BLAST score 145 9.0e-76 E value 396 Match length % identity 100 1.0 Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone: NCBI Description MOE17, complete sequence Seq. No. 140203 LIB24-123-Q1-E1-G3 Seq. ID Method BLASTN a405130 NCBI GI 147 BLAST score 2.0e-77 E value 151 Match length % identity 99 Arabidopsis thaliana nuclear-encoded chloroplast stromal NCBI Description cyclophilin (ROC4) mRNA, complete cds 140204 Seq. No. Seq. ID LIB24-123-Q1-E1-G6 Method BLASTX NCBI GI q3805760 256 BLAST score 4.0e-22 E value 88 Match length 69 % identity (AC005693) unknown protein [Arabidopsis thaliana] NCBI Description 140205 Seq. No. LIB24-123-Q1-E2-G3 Seq. ID Method BLASTN NCBI GI q405130 BLAST score 151 8.0e-80 E value Match length 151 100 % identity NCBI Description Arabidopsis thaliana nuclear-encoded chloroplast stromal cyclophilin (ROC4) mRNA, complete cds 140206 Seq. No.

sequence, complete sequence [Arabidopsis thaliana]

LIB24-124-Q1-E1-B5

BLAST score

```
BLASTN
Method
NCBI GI
                   g4544435
BLAST score
                   181
                   2.0e-97
E value
Match length
                   267
% identity
                   98
                   Arabidopsis thaliana chromosome II BAC F14M13 genomic
NCBI Description
                   sequence, complete sequence
Seq. No.
                   140207
Seq. ID
                   LIB24-124-Q1-E1-C8
Method
                   BLASTN
NCBI GI
                   g2191126
BLAST score
                   347
E value
                   0.0e + 00
Match length
                   409
                   100
% identity
                   Arabidopsis thaliana BAC IG002N01
NCBI Description
Seq. No.
                   140208
                   LIB24-124-Q1-E1-F3
Seq. ID
Method
                   BLASTN
NCBI GI
                   q4521999
BLAST score
                   58
E value
                   2.0e-24
Match length
                   130
% identity
                   86
                   Arabidopsis thaliana chromosome II BAC F2G1 genomic
NCBI Description
                   sequence, complete sequence
Seq. No.
                   140209
Seq. ID
                   LIB24-125-Q1-E1-A4
Method
                   BLASTN
NCBI GI
                   g2262097
BLAST score
                   125
E value
                   3.0e-64
Match length
                   157
% identity
                   95
NCBI Description
                   Arabidopsis thaliana chromosome IV BAC T19F6 genomic
                   sequence, complete sequence
Seq. No.
                   140210
Seq. ID
                   LIB24-125-Q1-E1-C8
Method
                   BLASTX
NCBI GI
                   g4263781
BLAST score
                   369
E value
                   2.0e-35
Match length
                   104
% identity
NCBI Description
                   (AC006068) putative membrane transport protein [Arabidopsis
                   thaliana]
                   140211
Seq. No.
                   LIB24-125-Q1-E1-D2
Seq. ID
Method
                   BLASTX
                   g2853078
NCBI GI
```

```
2.0e-73
E value
Match length
                   135
% identity
                   100
NCBI Description
                   (AL021768) TMV resistance protein N-like [Arabidopsis
                  thaliana]
Seq. No.
                   140212
Seq. ID
                   LIB24-125-Q1-E1-F5
Method
                   BLASTX
NCBI GI
                   q1617013
BLAST score
                   326
                                                                    7
E value
                   2.0e-30
Match length
                   66
% identity
                   97
NCBI Description (Y07745) histone H2B like protein [Arabidopsis thaliana]
Seq. No.
                   140213
Seq. ID .
                   LIB24-126-Q1-E1-A10
Method
                   BLASTN
NCBI GI
                   q4159704
BLAST score
                   92
E value
                   3.0e-44
Match length
                   184
% identity
                   100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MCB17, complete sequence
                   140214
Seq. No.
Seq. ID
                  LIB24-126-Q1-E1-A5
Method
                  BLASTX
NCBI GI
                   q643469
BLAST score
                   173
E value
                   2.0e-12
Match length
                   47
% identity
                   68
NCBI Description
                 (U19886) unknown [Lycopersicon esculentum]
                  140215
Seq. No.
Seq. ID
                  LIB24-126-Q1-E1-B6
Method
                  BLASTN
NCBI GI
                  g3522932
BLAST score
                  374
E value
                  0.0e + 00
Match length
                  374
                   100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F14M4 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140216
Seq. ID
                  LIB24-126-Q1-E1-C9
Method
                  BLASTN
NCBI GI
                  q4454004
BLAST score
                  244
E value
                  1.0e-135
Match length
                  368
% identity
                  100
NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone F24A6
```

E value

# (ESSAII project) Seq. No. 140217 Seq. ID LIB24-126-Q1-E1-D2 Method BLASTN NCBI GI g4585890 BLAST score 175 E value 1.0e-93 Match length 399 86 % identity NCBI Description Arabidopsis thaliana chromosome II BAC T3G21 genomic sequence, complete sequence 140218 Seq. No. Seq. ID LIB24-126-Q1-E1-D6 Method BLASTX NCBI GI q544424 BLAST score 217 1.0e-17 E value Match length 43 98 % identity GLYCINE-RICH RNA-BINDING PROTEIN 7 >gi 419755 pir S30147 NCBI Description glycine-rich protein (clone AtGRP7) - Arabidopsis thaliana >gi\_16301\_emb\_CAA78711\_ (Z14987) glycine rich protein [Arabidopsis thaliana] >gi\_166837 (L00648) RNA-binding protein [Arabidopsis thaliana] >gi\_4567224\_gb\_AAD23639.1\_AC007119\_5 (AC007119) glycine-rich RNA binding protein 7 [Arabidopsis thaliana] Seq. No. 140219 Seq. ID LIB24-126-Q1-E1-D9 Method BLASTN g4558586 NCBI GI BLAST score 334 0.0e + 00E value Match length 334 % identity 100 Arabidopsis thaliana chromosome 1 BAC T518 sequence, NCBI Description complete sequence Seq. No. 140220 Seq. ID LIB24-126-Q1-E1-E11 Method BLASTN NCBI GI g3241921 BLAST score 73 5.0e-33 E value Match length 235 % identity Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MCM23, complete sequence [Arabidopsis thaliana] Seq. No. 140221 Seq. ID LIB24-126-Q1-E1-E6 Method BLASTN NCBI GI q2477521 BLAST score 214

1.0e-117

BLAST score

```
367
Match length
                  97
% identity
                  Arabidopsis thaliana chromosome I BAC F22K20 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140222
                  LIB24-126-Q1-E1-F2
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3643588
BLAST score
                  244
E value
                  1.0e-135
Match length
                  244
% identity
                  93
                  Arabidopsis thaliana chromosome II BAC F17H15 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  140223
Seq. No.
                  LIB24-126-Q1-E1-G4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3688169
BLAST score
                  151
                  1.0e-79
E value
                  253
Match length
                   98
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F26P21
NCBI Description
                   (ESSAII project)
Seq. No.
                  140224
Seq. ID
                  LIB24-126-Q1-E1-G6
Method
                  BLASTX
NCBI GI
                   g1170711
BLAST score
                   686
                   1.0e-72
E value
                   129
Match length
                   99
% identity
                  SHAGGY RELATED PROTEIN KINASE ASK-ALPHA
NCBI Description
                   >gi_541901_pir__S41596 protein kinase ASK-alpha (EC
                   2.7.1.-) - Arabidopsis thaliana >gi_460832_emb_CAA53181_
                   (X75432) shaggy related kinase [Arabidopsis thaliana]
                  >gi 1769889_emb_CAA48538_ (X68525) serine /threonine
                  protein kinase [Arabidopsis thaliana]
Seq. No.
                  140225
                  LIB24-126-Q1-E1-H11
Seq. ID
                  BLASTX
Method
NCBI GI
                   g3461833
                   411
BLAST score
                   3.0e-40
E value
                  77
Match length
                   100
% identity
                   (AC004138) putative expansin [Arabidopsis thaliana]
NCBI Description
                   140226
Seq. No.
                  LIB24-127-Q1-E1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                   q3150403
```

Seq. ID

```
3.0e-13
E value
                  102
Match length
                  39
% identity
                  (AC004165) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  140227
Seq. No.
Seq. ID
                  LIB24-127-Q1-E1-B5
Method
                  BLASTX
NCBI GI
                  q3169173
BLAST score
                  341
                  2.0e-56
E value
Match length
                  112
                  99
% identity
                  (AC004401) putative serine carboxypeptidase I [Arabidopsis
NCBI Description
                  thaliana] >gi_3445215 (AC004786) putative serine
                  carboxypeptidase I [Arabidopsis thaliana]
Seq. No.
                  140228
                  LIB24-127-Q1-E1-D6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2244763
BLAST score
                  401
                  2.0e-39
E value
Match length
                  97
% identity
                  (Z97335) A6 anther-specific protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140229
                  LIB24-127-Q1-E1-F5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1352243
BLAST score
                  528
E value
                  4.0e-54
Match length
                  119
% identity
                  86
                  LIGHT-MEDIATED DEVELOPMENT PROTEIN DET1
NCBI Description
                  >gi 625972 pir_A54841 DET1 protein - Arabidopsis thaliana
                  >gi_510275 (L33695) DET1 [Arabidopsis thaliana] >gi_3695414
                   (AF096373) Arabidopsis thaliana light-mediated development
                  protein DET1 (SP:P48732) [Arabidopsis thaliana]
                  >gi 4538982 emb CAB39770.1_ (AL049487) Deetiolated1 (DET1)
                  light signal transduction protein [Arabidopsis thaliana]
                  140230
Seq. No.
                  LIB24-127-Q1-E1-H4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2160158
                  274
BLAST score
                  1.0e-24
E value
Match length
                  62
                  98
% identity
                  (AC000132) Similar to elongation factor 1-gamma
NCBI Description
                   (gb EF1G XENLA). ESTs gb T20564, gb_T45940, gb_T04527 come
                  from this gene. [Arabidopsis thaliana]
                  140231
Seq. No.
```

LIB24-128-Q1-E1-A12

```
Method
                  BLASTX
NCBI GI
                  g1345973
                                                  1445 ° 1
BLAST score
                  492
E value
                  7.0e-50
Match length
                  107
% identity
                  83
                  OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                  >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC
                  1.14.99.-) CF3 - Arabidopsis thaliana >gi_408483 (L22931)
                  omega-3 fatty acid desaturase [Arabidopsis thaliana]
                  >gi 471091 dbj BAA04505 (D17579) fatty acid desaturase
                  [Arabidopsis thaliana] >gi_1197795 dbj_BAA05514 (D26508)
                  microsomal omega-3 fatty acid desaturase [Arabidopsis
                  thaliana] >gi 3420053 (AC004680) omega-3 fatty acid
                  desaturase [Arabidopsis thaliana]
Seq. No.
                  140232
Seq. ID
                  LIB24-128-Q1-E1-A6
Method
                  BLASTN
NCBI GI
                  g4454004
BLAST score
                  400
E value
                  0.0e+00
Match length
                  400
% identity
                  100
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F24A6
                  (ESSAII project)
                  140233
Seq. No.
Seq. ID
                  LIB24-128-Q1-E1-B3
Method
                  BLASTX
NCBI GI
                  g3335365
BLAST score
                  496
                  3.0e-50
E value
Match length
                  139
% identity
                  76
NCBI Description
                  (AC003028) high affinity calcium antiporter [Arabidopsis
                  thaliana]
Seq. No.
                  140234
Seq. ID
                  LIB24-128-Q1-E1-G7
Method
                  BLASTX
NCBI GI
                  g2970034
BLAST score
                  381
E value
                  9.0e-37
Match length
                  115
% identity
                  57
NCBI Description (D88536) delta 9 desaturase [Arabidopsis thaliana]
                  140235
Seq. No.
Seq. ID
                  LIB24-128-Q1-E1-H3
Method
                  BLASTN
NCBI GI
                  g4454022
BLAST score
                  185
E value
                  1.0e-99
Match length
                  306
% identity
                  100
NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone F9D16
```

## (ESSAII project) Seq. No. 140236 Seq. ID LIB24-129-Q1-E1-H1 Method BLASTN NCBI GI g3860243 BLAST score 137 E value 4.0e-71 204 Match length % identity 63 NCBI Description Arabidopsis thaliana chromosome II BAC F15K20 genomic sequence, complete sequence [Arabidopsis thaliana] Seq. No. 140237 Seq. ID LIB24-130-Q1-E1-C5 Method BLASTN NCBI GI g166787 BLAST score 130 E value 2.0e-67. Match length 130 100 % identity NCBI Description A.thaliana chloroplast ATP synthase gamma subunit (atpC2) gene, complete cds Seq. No. 140238 Seq. ID LIB24-130-Q1-E1-C7 Method BLASTX NCBI GI q4586116 BLAST score 436 E value 3.0e-43 Match length 107 % identity (AL049638) putative C-4 sterol methyl oxidase [Arabidopsis NCBI Description thaliana] Seq. No. 140239 Seq. ID LIB24-130-Q1-E1-F4 Method BLASTN NCBI GI g1234869 BLAST score 271 E value 1.0e-151 Match length 362 94 % identity NCBI Description A.thaliana PSST gene Seq. No. 140240 LIB24-131-Q1-E1-A10 Seq. ID Method BLASTN NCBI GI q3643588 BLAST score 110 E value 7.0e-55 Match length 379 99 % identity Arabidopsis thaliana chromosome II BAC F17H15 genomic NCBI Description sequence, complete sequence [Arabidopsis thaliana]

140241

Seq. No.

Seq. ID

```
LIB24-131-Q1-E1-A11
 Seq. ID
 Method
                    BLASTN
 NCBI GI
                   g4469002
 BLAST score
                    349
 E value
                    0.0e+00
 Match length
                    370
 % identity
                    98
 NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone T29A15
                    (ESSA project)
 Seq. No.
                    140242
                   LIB24-131-Q1-E1-A9
 Seq. ID
 Method
                   BLASTN
 NCBI GI
                    q3243214
 BLAST score
                    184
 E value
                    4.0e-99
 Match length
                    289
 % identity
                    98
                   Arabidopsis thaliana BAC T19B17 from chromsome IV, near
 NCBI Description
                    19.3 cM, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    140243
 Seq. ID
                   LIB24-131-Q1-E1-D10
 Method
                   BLASTX
 NCBI GI
                   g2879811
 BLAST score
                    451
 E value
                    5.0e-45
 Match length
                    93
 % identity
 NCBI Description
                    (AJ223316) ribosomal protein L30 [Lupinus luteus]
 Seq. No.
                   140244
 Seq. ID
                   LIB24-131-Q1-E1-E10
 Method
                   BLASTX
 NCBI GI
                   g1351987
 BLAST score
                    687
E value
                   1.0e-72
 Match length
                   130
                   100
 % identity
                   ASPARAGINE SYNTHETASE (GLUTAMINE-HYDROLYZING)
 NCBI Description
                    (GLUTAMINE-DEPENDENT ASPARAGINE SYNTHETASE) >gi 507946
                    (L29083) glutamine-dependent asparagine synthetase
                    [Arabidopsis thaliana]
                   140245
 Seq. No.
 Seq. ID
                   LIB24-131-Q1-E1-F12
 Method
                   BLASTX
 NCBI GI
                   g3402757
 BLAST score
                   282
                   2.0e-25
 E value
 Match length
                   64
 % identity
                   (AL031187) receptor-like serine/threonine protein kinase
 NCBI Description
                   ARK3 [Arabidopsis thaliana]
 Seq. No.
                   140246
```

LIB24-131-Q1-E1-G6

```
Method
                  BLASTN
NCBI GI
                  q2351070
BLAST score
                  63
E value
                  8.0e-27
Match length
                  67
% identity
                   99
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MTH12, complete sequence [Arabidopsis thaliana]
                  140247
Seq. No.
Seq. ID
                  LIB24-131-Q1-E1-H7
Method
                  BLASTX
NCBI GI
                  q4538945
BLAST score
                  236
E value
                   7.0e-20
                   66
Match length
                   67
% identity
                   (AL049483) putative thioredoxin [Arabidopsis thaliana]
NCBI Description
                  140248
Seq. No.
                  LIB24-132-Q1-E1-B9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3600036
BLAST score
                  343
E value
                   2.0e-32
Match length
                  83
% identity
                  84
                   (AF080119) contains similarity to protein kinase domains
NCBI Description
                   (Pfam: pkinase.hmm, score: 227.04) [Arabidopsis thaliana]
Seq. No.
                  140249
                  LIB24-132-Q1-E1-D7
Seq. ID
Method
                  BLASTX
NCBI GI
                   q2275199
                  707
BLAST score
E value
                   5.0e-75
Match length
                  131
% identity
                  100
                   (AC002337) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  140250
Seq. No.
Seq. ID
                  LIB24-132-Q1-E1-D9
Method
                  BLASTX
NCBI GI
                  g1418331
                  278
BLAST score
                  8.0e-25
E value
Match length
                  111
% identity
NCBI Description
                   (X95909) receptor like protein kinase [Arabidopsis
                  thaliana]
                  140251
Seq. No.
Seq. ID
                  LIB24-132-Q1-E1-H4
                  BLASTN
Method
                  q2772831
NCBI GI
                  51
BLAST score
```

5.0e-20

E value

E value

6.0e-76

```
Match length
                  75
% identity
                  92
                  Arabidopsis thaliana minisatellite-like locus CMs9
NCBI Description
Seq. No.
                  140252
Seq. ID
                  LIB24-133-Q1-E1-B10
Method
                  BLASTX
NCBI GI
                  q1172872
BLAST score
                  575
E value
                  2.0e-59
Match length
                  109
% identity
                  100
                  CYSTEINE PROTEINASE RD19A PRECURSOR >gi 541856 pir JN0718
NCBI Description
                  drought-inducible cysteine proteinase (EC 3.4.22.-) RD19A
                  precursor - Arabidopsis thaliana >gi 435618_dbj_BAA02373_
                  (D13042) thiol protease [Arabidopsis thaliana]
                  >gi_4539328_emb_CAB38829.1_ (AL035679) drought-inducible
                  cysteine proteinase RD19A precursor [Arabidopsis thaliana]
Seq. No.
                  140253
Seq. ID
                  LIB24-133-Q1-E1-C5
Method
                  BLASTX
NCBI GI
                  g2924520
BLAST score
                  717
E value
                  4.0e-76
Match length
                  136
% identity
                  100
NCBI Description
                  (AL022023) plasma membrane intrinsic protein (SIMIP)
                  [Arabidopsis thaliana]
Seq. No.
                  140254
Seq. ID
                  LIB24-133-Q1-E1-D10
Method
                  BLASTN
NCBI GI
                  g2505873
BLAST score
                  176
E value
                  3.0e - 94
Match length
                  421
% identity
                  98
                  Arabidopsis thaliana DNA, 40 kb surrounding ACS1 locus
NCBI Description
Seq. No.
                  140255
                  LIB24-133-Q1-E1-D11
Seq: ID
Method
                  BLASTX
NCBI GI
                  g2191142
BLAST score
                  724
E value
                  6.0e-77
Match length
                  139
% identity
NCBI Description
                  (AF007269) A IG002N01.27 gene product [Arabidopsis
                  thaliana]
Seq. No.
                  140256
Seq. ID
                  LIB24-133-Q1-E1-D6
Method
                  BLASTX
                  g3046703
NCBI GI
                  715
BLAST score
```

BLAST score

```
Match length
                   138
                   100
% identity
                   (AL021749) protein kinase ADK1-like protein [Arabidopsis
NCBI Description
                   thaliana]
                   140257
Seq. No.
Seq. ID
                   LIB24-133-Q1-E1-D7
Method
                   BLASTX
NCBI GI
                   g3776581
                   435
BLAST score
E value
                   4.0e-43
Match length
                   135
                   57
% identity
                   (AC005388) Similar to Beta integral membrane protein
NCBI Description
                   homolog gb U43629 from A. thaliana. [Arabidopsis thaliana]
Seq. No.
                   140258
                   LIB24-133-Q1-E1-E1
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4469002
                   318
BLAST score
E value
                   1.0e-179
Match length
                   422
                   100
% identity
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone T29A15
                   (ESSA project)
Seq. No.
                   140259
Seq. ID
                   LIB24-133-Q1-E1-E8
Method
                   BLASTX
NCBI GI
                   g1170711
BLAST score
                   98
                   7.0e-04
E value
Match length
                   78
% identity
                   SHAGGY RELATED PROTEIN KINASE ASK-ALPHA
NCBI Description
                   >gi 541901_pir__S41596 protein kinase ASK-alpha (EC
                   2.7.1.-) - Arabidopsis thaliana >gi 460832 emb CAA53181_
                   (X75432) shaggy related kinase [Arabidopsis thaliana] >gi_1769889_emb_CAA48538_ (X68525) serine /threonine
                   protein kinase [Arabidopsis thaliana]
Seq. No.
                   140260
                   LIB24-133-Q1-E1-F2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2462836
BLAST score
                   403
                   2.0e-39
E value
                   129
Match length
% identity
                   67
                   (AF000657) beta-glucanase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140261
                   LIB24-133-Q1-E1-F7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2213615
                   473
```

Match length

```
1.0e-47
E value
Match length
                   137
                    61
% identity
                    (AC000103) F21J9.9 [Arabidopsis thaliana]
NCBI Description
                   140262
Seq. No.
Seq. ID
                   LIB24-133-Q1-E1-G10
Method
                   BLASTX -
NCBI GI
                   g417060
BLAST score
                   568
E value
                    1.0e-58
                   128
Match length
                   82
% identity
NCBI Description
                   GLUTAMINE SYNTHETASE NODULE ISOZYME (GLUTAMATE--AMMONIA
                   LIGASE) (GS) >gi_170637 (M94765) glutamine synthetase [Vigna aconitifolia] >gi_1094850_prf__2106409A Gln
                   synthetase [Vigna aconitifolia]
Seq. No.
                   140263
Seq. ID
                   LIB24-133-Q1-E1-H1
Method
                   BLASTN
NCBI GI
                   q3046851
BLAST score
                   382
E value
                   0.0e + 00
Match length
                   382
% identity
                    100
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MIJ24, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140264
Seq. ID
                   LIB24-134-Q1-E1-A7
Method
                   BLASTX
NCBI GI
                   q2244765
BLAST score
                   544
E value
                    7.0e-56
Match length
                   141
% identity
                    39
NCBI Description
                   (Z97335) hypothetical protein [Arabidopsis thaliana]
                   140265
Seq. No.
Seq. ID
                   LIB24-134-01-E1-B10
Method
                   BLASTX
NCBI GI
                   q3355480
BLAST score
                   227
E value
                    9.0e-19
Match length
                   76
% identity
NCBI Description
                    (AC004218) Medicago nodulin N21-like protein [Arabidopsis
                   thaliana]
Seq. No.
                   140266
Seq. ID
                   LIB24-134-Q1-E1-B4
Method
                   BLASTN
NCBI GI
                   g3281847
BLAST score
                   164
E value
                   2.0e-87
```

```
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F28M20
                  (ESSAII project)
Seq. No.
                  140267
Seq. ID
                  LIB24-134-Q1-E1-F7
Method
                  BLASTX
NCBI GI
                  g3915169
BLAST score
                  163.
E value
                  3.0e-11
Match length
                  97
% identity
                  36
                  PROBABLE TRNA (GUANOSINE-2'-O-)-METHYLTRANSFERASE (TRNA
NCBI Description
                  [GM18] METHYLTRANSFERASE) >gi 2983982 (AE000749) rRNA
                  methylase SpoU [Aquifex aeolicus]
Seq. No.
                  140268
Seq. ID
                  LIB24-135-Q1-E1-A7
Method
                  BLASTX
NCBI GI
                  g2245131
BLAST score
                  142 .
                  8.0e-09
E value
Match length
                  114
% identity
                  33
NCBI Description (Z97344) hypothetical protein [Arabidopsis thaliana]
Seq. No.
                  140269
Seq. ID
                  LIB24-135-Q1-E1-B1
Method
                  BLASTN
NCBI GI
                  g4204173
BLAST score
                  121
E value
                  6.0e-62
Match length
                  137
                  97
% identity
NCBI Description
                  Arabidopsis thaliana chromosome 1 BAC T2K10 sequence,
                  complete sequence [Arabidopsis thaliana]
                  140270
Seq. No.
Seq. ID
                  LIB24-135-Q1-E1-E1
Method
                  BLASTX
NCBI GI
                  g3033400
BLAST score
                  469
E value
                  3.0e-47
Match length
                  107
% identity
NCBI Description
                  (AC004238) putative Ser/Thr protein kinase [Arabidopsis
                  thaliana]
                  140271
Seq. No.
Seq. ID
                  LIB24-135-Q1-E1-F12
Method
                  BLASTX
NCBI GI
                  g40564445--
BLAST score
                  167
E value
                  2.0e-22
Match length
                  92
% identity
NCBI Description (AC005990) Similar to OBP32pep protein gb U37698 from
```

Seq. ID

# Arabidopsis thaliana. [Arabidopsis thaliana]

```
Seq. No.
                  140272
                  LIB24-135-Q1-E1-G8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2558962
BLAST score
                  206
E value
                  2.0e-16
Match length
                  43
% identity
                   98
                  (AF025667) histone H2B1 [Gossypium hirsutum]
NCBI Description
Seq. No.
                  140273
Seq. ID
                  LIB24-135-Q1-E1-H12
Method
                  BLASTN
NCBI GI
                  g2833627
BLAST score
                  77
E value
                  8.0e-36
Match length
                  105
% identity
                  93
                  Arabidopsis thaliana chromosome 1 BAC F1707 complete
NCBI Description
                  sequence [Arabidopsis thaliana]
Seq. No.
                  140274
Seq. ID
                  LIB24-135-Q1-E1-H4
Method
                  BLASTX
NCBI GI
                  q2664200
BLAST score
                  495
E value
                   3.0e-50
Match length
                  94
% identity
                   69
NCBI Description
                  (AJ003216) GTL2 [Arabidopsis thaliana]
                  140275
Seq. No.
Seq. ID
                  LIB24-135-Q1-E1-H6
Method
                  BLASTN
NCBI GI
                  g2341023
BLAST score
                  210
E value
                   1.0e-115
Match length
                  226
% identity
                  98
NCBI Description
                  Sequence of BAC F19P19 from Arabidopsis thaliana chromosome
                  1, complete sequence [Arabidopsis thaliana]
                  140276
Seq. No.
Seq. ID
                  LIB24-136-Q1-E1-A12
Method
                  BLASTN
NCBI GI
                  q3980374
BLAST score
                  74
E value
                  2.0e-33
Match length
                  146
                  88
% identity
                  Arabidopsis thaliana chromosome II BAC F16P2 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
```

LIB24-136-Q1-E1-A3

% identity

```
Method
                  BLASTX
NCBI GI
                  g2129569
BLAST score
                  566
E value
                  2.0e-58
Match length
                  120
% identity
                  90
                  cytosolic cyclophilin ROC3 - Arabidopsis thaliana
NCBI Description
                  >qi 1305455 (U40399) cytosolic cyclophilin [Arabidopsis
                  thaliana] >gi 4581104_gb_AAD24594.1 AC005825_1 (AC005825)
                  cytosolic cyclophilin (ROC3) [Arabidopsis thaliana]
Seq. No.
                  140278
Seq. ID
                  LIB24-136-Q1-E1-C11
Method
                  BLASTX
NCBI GI
                  q2130442
BLAST score
                  263
E value
                  6.0e-23
Match length
                  138
% identity
                  41
       eription hypothetical protein SPAC8A4.01c fission yeast
                  (Schizosaccharomyces pombe) (fragment)
                  >gi 1052534 emb CAA91511 (Z66569) unknown
                  [Schizosaccharomyces pombe]
Seq. No.
                  140279
Seq. ID
                  LIB24-136-Q1-E1-D1
Method
                  BLASTN
NCBI GI
                  q4691223
BLAST score
                  276
E value
                  1.0e-154
Match length
                  309
% identity
                  100
                  Arabidopsis thaliana DNA chromosome 3, BAC clone F4F15
NCBI Description
                  (ESSA project)
Seq. No.
                  140280
Seq. ID
                  LIB24-136-Q1-E1-D12
Method
                  BLASTX
NCBI GI
                  q3881836
BLAST score
                  593
E value
                  1.0e-61
Match length
                  139
% identity
                  80
                  (Z78019) Similarity to Yeast LPG22P protein (TR:G1151240);
NCBI Description
                  cDNA EST EMBL: T00686 comes from this gene; cDNA EST
                  EMBL:C12415 comes from this gene; cDNA EST EMBL:C12728
                  comes from this gene; cDNA EST EMBL: C10626 comes from this
                  ge
Seq. No.
                  140281
Seq. ID
                  LIB24-136-Q1-E1-E12
Method
                  BLASTX
NCBI GI
                  q1175012
BLAST score
                  591
                  2.0e-61
E value
Match length
                  126
```

```
PLASMA MEMBRANE INTRINSIC PROTEIN 1C (TRANSMEMBRANE PROTEIN
NCBI Description
                   B) (TMP-B) >gi 396218 emb CAA49155 (X69294) transmembrane
                   protein TMP-B [Arabidopsis thaliana]
Seq. No.
                   140282
Seq. ID
                   LIB24-136-Q1-E1-F3
Method
                   BLASTX
NCBI GI
                   q3873677
BLAST score
                   172
                   2.0e-12
E value
Match length
                   102
                   33
% identity
NCBI Description
                    (271178) Similarity with yeast hypothetical protein (Swiss
                   Prot accession number P43577) [Caenorhabditis elegans]
                   >gi_4115737_dbj_BAA36497_ (AB017628) acetyltransferase
[Caenorhabditis elegans]
Seq. No.
                   140283
Seq. ID
                   LIB24-136-Q1-E1-G11
                   BLASTX
Method :
NCBI GI
                   g2271485
BLAST score
                   735
E value
                   3.0e-78
Match length
                   140
% identity
                   100
NCBI Description
                   (AF009647) arginine decarboxylase [Arabidopsis thaliana]
                   >gi_3096940_emb_CAA18850.1_ (AL023094) arginine
                   decarboxylase SPE2 [Arabidopsis thaliana]
Seq. No.
                   140284
Seq. ID
                   LIB24-136-Q1-E1-G6
Method
                   BLASTN
NCBI GI
                   g16306
BLAST score
                   49
E value
                   2.0e-19
Match length
                   70
% identity
NCBI Description
                   A.thaliana genes encoding glycine-rich proteins
Seq. No.
                   140285
Seq. ID
                   LIB24-136-Q1-E1-H11
Method
                   BLASTX
NCBI GI
                   g2499611
BLAST score
                   676
E value
                   2.0e-71
Match length
                   132
% identity
                   99
NCBI Description
                   MITOGEN-ACTIVATED PROTEIN KINASE HOMOLOG 7 (MAP KINASE 7)
                   (ATMPK7) >gi_629548_pir__S40473 mitogen-activated protein kinase 7 (EC 2.7.1.-) - Arabidopsis thaliana
                   >gi 457406 dbj BAA04870 (D21843) MAP kinase [Arabidopsis
                   thaliana]
                   140286
Seq. No.
Seq. ID
                   LIB24-136-Q1-E1-H5
Method
                   BLASTN
NCBI GI
                   q3128143
```

```
BLAST score
                   230
                   1.0e-126
E value
Match length
                   298
                   98
% identity ·
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MTI20, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140287
Seq. ID
                   LIB24-137-Q1-E1-E12
Method
                   BLASTN
NCBI GI
                   q3293582
BLAST score
                   317
E value
                   1.0e-178
Match length
                   377
                   95
% identity
                   Arabidopsis thaliana BAC T15F16
NCBI Description
                   140288
Seq. No.
                   LIB24-137-Q1-E1-E3
Seq. ID
                  BLASTX
Method
                   g4193388
NCBI GI
                   278
BLAST score
                   6.0e-25
E value
                   74
Match length
% identity
                    (AF091455) translationally controlled tumor protein [Hevea
NCBI Description
                   brasiliensis]
                   140289
Seq. No.
Seq. ID
                   LIB24-137-Q1-E1-H10
Method
                   BLASTX
NCBI GI
                   g4033468
BLAST score
                   102
E value
                   4.0e-04
Match length
                   109
% identity
                   33
                   ARGININE/SERINE-RICH SPLICING FACTOR RSP40
NCBI Description
                   >gi_2582641_emb_CAA67800_ (X99437) splicing factor
[Arabidopsis thaliana] >gi_2980800_emb_CAA18176_ (AL022197)
                   splicing factor At-SRp40 [Arabidopsis thaliana]
                   140290
Seq. No.
Seq. ID
                   LIB25-001-Q1-E1-A9
                   BLASTX
Method
NCBI GI
                   g3033388
BLAST score
                   168
E value
                   9.0e-12
                   104
Match length
                   36
% identity
                   (AC004238) hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140291
                   LIB25-001-Q1-E1-B11
Seq. ID
                   BLASTN
Method
NCBI GI
                   g3763944
BLAST score
                   82
```

6.0e-39

E value

```
Match length
                  82
                   100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F28A23
NCBI Description
                   (ESSAII project)
Seq. No.
                  140292
                  LIB25-001-Q1-E1-C12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2262097
BLAST score
                  180
E value
                  8.0e-97
Match length
                  284
                  91
% identity
                  Arabidopsis thaliana chromosome IV BAC T19F6 genomic
NCBI Description
                  sequence, complete sequence
                  140293
Seq. No.
Seq. ID
                  LIB25-001-Q1-E2-B11
Method.
                  BLASTN
NCBI GI
                  g3763944
BLAST score
                  71
                  2.0e-32
E value
Match length
                  79
                  97
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F28A23
NCBI Description
                   (ESSAII project)
                  140294
Seq. No.
Seq. ID
                  LIB25-001-Q1-E2-C3
Method
                  BLASTX
NCBI GI
                  g2062170
BLAST score
                  427
E value
                  2.0e-43
Match length
                  97
% identity
NCBI Description
                  (AC001645) unknown protein [Arabidopsis thaliana]
                  140295
Seq. No.
Seq. ID
                  LIB25-001-Q1-E2-D4
Method
                  BLASTX
NCBI GI
                  g499862
BLAST score
                  176
E value
                  1.0e-12
Match length
                  130
% identity
                  36
                  (L33893) NADPH-cytochrome P-450 oxidoreductase [Sus scrofa]
NCBI Description
                  140296
Seq. No.
                  LIB25-001-Q1-E2-E1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2760172
BLAST score
                  136
E value
                  1.0e-70
Match length
                  267
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
```

MUB3, complete sequence [Arabidopsis thaliana]

```
Seq. No.
                                              140297
Seq. ID
                                              LIB25-001-Q1-E2-E6
Method
                                              BLASTN
NCBI GI
                                              g2342673
BLAST score
                                              120
E value
                                              7.0e-61
Match length
                                              320
% identity
                                               97
NCBI Description
                                              Sequence of BAC F7G19 from Arabidopsis thaliana chromosome
                                              1, complete sequence [Arabidopsis thaliana]
                                              140298
Seq. No.
Seq. ID
                                              LIB25-001-Q1-E2-F11
Method
                                              BLASTN
NCBI GI
                                              q1483217
BLAST score
                                              346
                                              0.0e + 00
E value
Match length
                                              437
                                                            The Company of the State of the Company of the Comp
% identity
                                              99.
NCBI Description A.thaliana gene induced upon wounding stress
Seq. No.
                                              140299
Seq. ID
                                              LIB25-001-Q1-E2-G1
Method
                                              BLASTX
NCBI GI
                                              q1170851
BLAST score
                                              228
                                               4.0e-19
E value
Match length
                                              90
% identity
NCBI Description
                                              MANNOSYL-OLIGOSACCHARIDE ALPHA-1, 2-MANNOSIDASE
                                               (MAN (9) -ALPHA-MANNOSIDASE) (ALPHA-MANNOSIDASE 1A)
                                              >gi_1083410_pir__A54408 mannosyl-oligosaccharide
                                              1,2-alpha-mannosidase (EC 3.2.1.113) - mouse >gi 474280
                                               (U04299) mannosyl-oligosaccharide alpha-1,2-mannosidase
                                               [Mus musculus]
                                              140300
Seq. No.
Seq. ID
                                              LIB25-001-Q1-E2-G10
Method
                                              BLASTX
NCBI GI
                                              q4680651
BLAST score
                                              155
E value
                                              3.0e-10
Match length
                                              85
% identity
NCBI Description
                                               (AF132940) CGI-06 protein [Homo sapiens]
Seq. No.
                                              140301
Seq. ID
                                              LIB25-001-Q1-E2-G2
Method
                                              BLASTN
NCBI GI
                                              q2088638
BLAST score
                                              308
E value
                                              1.0e-173
Match length
                                              380
                                              94
% identity
                                              Arabidopsis thaliana chromosome II BAC T28M21 genomic
NCBI Description
                                              sequence, complete sequence [Arabidopsis thaliana]
```

Seq. No.

```
Seq. No.
                    140302
  Seq. ID
                    LIB25-002-Q1-E1-A10
  Method
                    BLASTX
  NCBI GI
                    g3646451
  BLAST score
                    172
  E value
                    3.0e-12
  Match length
                    83
  % identity
                     (AL031603) mRNA cap methyltransferase [Schizosaccharomyces
  NCBI Description
                    pombe]
                    140303
  Seq. No.
  Seq. ID
                    LIB25-002-Q1-E1-B1
  Method
                    BLASTN
  NCBI GI
                    q4732167
  BLAST score
                    261
                    1.0e-145
  E value
                    312
  Match length
                             1、家的学生的体验
% identity
                    -100
  NCBI Description Arabidopsis thaliana BAC F28D6
  Seq. No.
                    140304
  Seq. ID
                    LIB25-002-Q1-E1-B6
  Method
                    BLASTX
                    g3021277
  NCBI GI
  BLAST score
                    391
                     3.0e-38
  E value
  Match length
                    72
  % identity
                     (AL022347) protein kinase - like protein [Arabidopsis
  NCBI Description
                    thaliana]
                    140305
  Seq. No.
                    LIB25-002-Q1-E1-C10
  Seq. ID
  Method
                    BLASTX
  NCBI GI
                     q4127456
  BLAST score
                     447
  E value
                     2.0e-44
  Match length
                    91
                     47
  % identity
                     (AJ010818) Cpn21 protein [Arabidopsis thaliana]
  NCBI Description
                     140306
  Seq. No.
                    LIB25-002-Q1-E1-C3
  Seq. ID
  Method
                    BLASTX
  NCBI GI
                     q4587570
  BLAST score
                     352
  E value
                     2.0e-33
  Match length
                     105
  % identity
                     (AC006550) Strong similarity to gi 2244833 centromere
  NCBI Description
                    protein homolog from Arabidopsis thaliana chromosome 4
                    contig gb Z97337. ESTs gb_T20765 and gb_AA586277 come from
                    this gene
```

% identity

```
LIB25-002-Q1-E1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g136636
                  475
BLAST score
                  8.0e-48
E value
Match length
                  87
                  100
% identity
                  UBIQUITIN-CONJUGATING ENZYME E2-17 KD 1 (UBIQUITIN-PROTEIN
NCBI Description
                  LIGASE 1) (UBIQUITIN CARRIER PROTEIN 1)
                  >gi 1076424 pir S43781 ubiquitin-conjugating enzyme UBC1 -
                  Arabidopsis thaliana >gi_442594_pdb_1AAK_ Ubiquitin
                  Conjugating Enzyme (E.C.6.3.2.19) >gi 2981894 pdb 2AAK
                  Ubiquitin Conjugating Enzyme From Arabidopsis Thaliana
                  >qi 166924 (M62721) ubiquitin carrier protein [Arabidopsis
                  thaliana] >qi 431260 (L19351) ubiquitin conjugating enzyme
                  [Arabidopsis thaliana]
Seq. No.
                  140308
Seq. ID
                  LIB25-002-Q1-E1-C8
Method
                  BLASTN
                             in the second
NCBI GI
                  q2924733
BLAST score
                  164
E value
                  4.0e-87
Match length
                  402
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUF9, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140309
Seq. ID
                  LIB25-002-Q1-E1-D1
Method
                  BLASTX
NCBI GI
                  g2052383
BLAST score
                  254
E value
                  7.0e-22
Match length
                  53
% identity
NCBI Description (U66345) calreticulin [Arabidopsis thaliana]
Seq. No.
                  140310
                  LIB25-002-Q1-E1-E5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3212102
BLAST score
                  131
E value
                  1.0e-67
Match length
                  211
                  100
% identity
                  Arabidopsis Thaliana BAC F6A4, Chromosome IV, near 60.5 cM,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  140311
Seq. No.
Seq. ID
                  LIB25-002-Q1-E1-H3
Method
                  BLASTX
NCBI GI
                  q4432858
BLAST score
                  237
E value
                  5.0e-20
Match length
                  90
```

Method

BLASTX

```
NCBI Description
                   (AC006300) putative disease resistance protein [Arabidopsis
                  thaliana]
                  140312
Seq. No.
Seq. ID
                  LIB25-002-Q1-E1-H6
Method
                  BLASTN
NCBI GI
                  g3193282
BLAST score
                  149
E value
                  3.0e-78
Match length
                  354
% identity
                  100
NCBI Description Arabidopsis thaliana BAC T14P8
Seq. No.
                  140313
Seq. ID
                  LIB25-003-Q1-E1-A12
Method
                  BLASTX
NCBI GI
                  g3355471
BLAST score
                  728
E value
                  2.0e-77
Match length
                  · 143
                  99
% identity
NCBI Description
                   (AC004218) putative lysophospholipase [Arabidopsis
                  thaliana]
Seq. No.
                  140314
Seq. ID
                  LIB25-003-Q1-E1-C5
Method
                  BLASTX
NCBI GI
                  q1488521
BLAST score
                  342
E value
                  3.0e - 32
Match length
                  69
% identity
                  100
NCBI Description (X99938) RNA helicase [Arabidopsis thaliana]
Seq. No.
                  140315
Seq. ID
                  LIB25-003-Q1-E1-E1
Method.
                  BLASTX
NCBI GI
                  g1825727
BLAST score
                  450
                  7.0e-45
E value
Match length
                  138
% identity
                  59
NCBI Description (U88308) C32E8.5 gene product [Caenorhabditis elegans]
                  140316
Seq. No.
Seq. ID
                  LIB25-003-Q1-E1-E5
Method
                  BLASTX
NCBI GI
                  g4508070
BLAST score
                  586
E value
                  8.0e-61
Match length
                  110
% identity
                  99
                  (AC005882) 24349 [Arabidopsis thaliana]
NCBI Description
                  140317
Seq. No.
                  LIB25-003-Q1-E1-F1
Seq. ID
```

BLAST score

103

Ś. .

2-32.

```
NCBI GI
                      g1769905
   BLAST score '
                      416
   E value
                      7.0e-41
   Match length
                      121
   % identity
                      67
   NCBI Description
                      (X98108) 23 kDa polypeptide of oxygen-evolving comlex (OEC)
                      [Arabidopsis thaliana]
   Seq. No.
                      140318
   Seq. ID
                      LIB25-003-Q1-E1-G4
   Method
                      BLASTN
   NCBI GI
                      g2351067
   BLAST score
                      322
   E value
                      0.0e + 00
   Match length
                      387
                      100
   % identity
                      Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
   NCBI Description
                      MPO12, complete sequence [Arabidopsis thaliana]
'⇔ Seq. No.
                    140319
                      LIB25-004-Q1-E1-B10
   Seq. ID
   Method
                      BLASTN
                      g4376087
   NCBI GI
   BLAST score
                      276
   E value
                      1.0e-154
                      359
   Match length
                      100
   % identity
                      Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
   NCBI Description
                      fragment No
   Seq. No.
                      140320
                      LIB25-004-Q1-E1-C10
   Seq. ID
   Method
                      BLASTN
   NCBI GI
                      q3510343
   BLAST score
                      431
   E value
                      0.0e + 00
                      431
   Match length
                      100
   % identity
                      Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
   NCBI Description
                      MJC20, complete sequence [Arabidopsis thaliana]
                      140321
   Seq. No.
   Seq. ID
                      LIB25-004-Q1-E1-C6
   Method
                      BLASTN
   NCBI GI
                      g3335331
   BLAST score
                      47
   E value
                      3.0e-18
   Match length
                      47
                      100
   % identity
                      Arabidopsis thaliana chromosome 1 BAC T8F5 sequence,
   NCBI Description
                      complete sequence [Arabidopsis thaliana]
                      140322
   Seq. No.
   Seq. ID
                      LIB25-004-Q1-E1-C9
   Method
                      BLASTN
   NCBI GI
                      g166645
```

% identity

```
3.0e-51
E value
Match length
                   107
% identity
                   99 -
                  Arabidopsis thaliana light-harvesting chlorophyll
NCBI Description
                   a/b-binding protein (Cab4) mRNA, complete cds
Seq. No.
                   140323
Seq. ID
                   LIB25-004-Q1-E1-D11
Method
                   BLASTX
NCBI GI
                   g2695931
BLAST score
                   282
E value
                   4.0e-25
Match length
                   74
% identity
                  (AJ222779) hypothetical protein [Hordeum vulgare]
NCBI Description
                   140324
Seq. No.
                   LIB25-005-Q1-E1-B9
Seq. ID.
Method
                   BLASTN
NCBI GI
                   g3046851
BLAST score
                   126
                   1.0e-64
E value
Match length
                   290
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MIJ24, complete sequence [Arabidopsis thaliana]
                   140325
Seq. No.
                   LIB25-005-Q1-E1-G12
Seq. ID
Method
                   BLASTX
NCBI GI
                   q4455199
BLAST score
                   547
                   2.0e-56
E value
Match length
                   116
% identity
NCBI Description
                   (AL035440) putative protein [Arabidopsis thaliana]
Seq. No.
                   140326
                   LIB25-006-Q1-E1-A4
Seq. ID
Method
                   BLASTX
NCBI GI
                   q480907
BLAST score
                   390
                   3.0e-38
E value
                   81
Match length
                   95
% identity
                   peroxidase (EC 1.11.1.7) - Arabidopsis thaliana
NCBI Description
                   >gi 405611_emb_CAA50677_ (X71794) peroxidase [Arabidopsis
                   thaliana]
                   140327
Seq. No.
Seq. ID
                   LIB25-006-01-E1-B7
Method
                   BLASTX
NCBI GI
                   a115783
BLAST score
                   396
E value
                   1.0e-38
Match length
                   85
```

```
NCBI Description CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
                   (CAB-140) (LHCP) >gi_16376_emb_CAA27543_
                                                             (X03909)
                  chlorophyll a/b binding protein (LHCP AB 140) [Arabidopsis
                  thaliana]
                  140328
Seq. No.
Seq. ID
                  LIB25-006-Q1-E1-C6
Method
                  BLASTX
NCBI GI
                  g4455336
BLAST score
                  430
                  1.0e-42
E value
Match length
                  86
% identity
                   (AL035525) pectinesterase-like protein [Arabidopsis
NCBI Description
                  thaliana]
                  140329
Seq. No.
Seq. ID
                  LIB25-006-Q1-E1-D1
Method
                  BLASTN
NCBI GI
                  g3985958
                  155
BLAST score
E value
                  4.0e-82
Match length
                  162
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MZN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140330
                  LIB25-006-Q1-E1-D7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3643588
BLAST score
                  164
                   3.0e-87
E value
Match length
                   302
% identity
                   99
                  Arabidopsis thaliana chromosome II BAC F17H15 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                   140331
Seq. No.
                  LIB25-006-Q1-E1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1617274
BLAST score
                   392
                   3.0e-38
E value
                   96
Match length
% identity
                   71
                   (272152) AMP-binding protein [Brassica napus]
NCBI Description
Seq. No.
                   140332
                  LIB25-006-Q1-E1-E10
Seq. ID
Method
                  BLASTN
NCBI GI
                   g2961335
BLAST score
                   93
                   3.0e-45
E value
Match length
                   141
                   91
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F1N20
NCBI Description
```

### 140333 Seq. No. Seq. ID LIB25-006-Q1-E1-E3 Method BLASTN NCBI GI g2980787 BLAST score 141 2.0e-73 E value 275 Match length % identity Arabidopsis thaliana DNA chromosome 4, P1 clone M7J2 NCBI Description (ESSAII project) 140334 Seq. No. Seq. ID LIB25-006-Q1-E1-F5 Method BLASTX g2257743 NCBI GI 196 BLAST score E value 3.0e-15 74 Match length % identity . 55 (U62020) lysine-sensitive aspartate kinase [Arabidopsis NCBI Description thaliana] 140335 Seq. No. Seq. ID LIB25-006-Q1-E1-G3 Method BLASTX g4581132 NCBI GI 381 BLAST score 6.0e-37 E value Match length 74 % identity 99 (AC005825) hypothetical protein [Arabidopsis thaliana] NCBI Description 140336 Seq. No. LIB25-006-Q1-E1-G6 Seq. ID Method BLASTX NCBI GI g3415117 363 BLAST score 1.0e-34 E value 72 Match length 47 % identity (AF081203) villin 3 [Arabidopsis thaliana] NCBI Description 140337 Seq. No. LIB25-006-Q1-E2-A4 Seq. ID Method BLASTN g3068702 NCBI GI BLAST score 193 1.0e-105 E value 193 Match length 100 % identity NCBI Description Arabidopsis thaliana putative transmembrane protein Glp (AtG1), putative nuclear DNA-binding protein G2p (AtG2),

(ESSAII project)

Em1 protein (ATEM1), putative chlorophyll synthetase (AtG4), putative transmembrane protein G5p (AtG5), put

```
140338
Seq. No.
                  LIB25-006-Q1-E2-C10
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3128137
                  58
BLAST score
                  2.0e-24
E value
                  130
Match length
                  86
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K9I9, complete sequence [Arabidopsis thaliana]
                  140339
Seq. No.
Seq. ID
                  LIB25-006-Q1-E2-F3
                  BLASTX
Method
NCBI GI
                  g3056592
BLAST score
                   607
E value
                  2.0e-63
                  118
Match length
                   98
% identity
NCBI Description (AC004255) T1F9.13 [Arabidopsis thalkana]
                  140340
Seq. No.
                  LIB25-006-Q1-E2-F6
Seq. ID
Method
                  BLASTX
NCBI GI
                   g1730674
BLAST score
                  211
                   6.0e-17
E value
Match length
                   96
                   43
% identity
                  HYPOTHETICAL 62.7 KD PROTEIN IN SEC12-SSK2 INTERGENIC
NCBI Description
                  REGION >gi_2132801_pir__S63361 probable membrane protein
                   YNR030w - yeast (Saccharomyces cerevisiae)
                  >gi_1302525_emb_CAA96310_ (Z71645) ORF YNR030w
                   [Saccharomyces cerevisiae]
                  140341
Seq. No.
                  LIB25-007-Q1-E1-A12
Seq. ID
Method
                  BLASTN
                   g4678315
NCBI GI
BLAST score
                   142
                   6.0e-74
E value
                   388
Match length
                   100
% identity
                  Arabidopsis thaliana DNA chromosome 3, BAC clone T17F15
NCBI Description
                   (ESSA project)
                   140342
Seq. No.
                  LIB25-007-Q1-E1-A9
Seq. ID
                  BLASTN
Method
                   g4753195
NCBI GI
BLAST score
                   370
                   0.0e+00
E value
                   370
Match length
                   100
% identity
                  Arabidopsis thaliana BAC F15A18 from chromosome V near 68.5
NCBI Description
```

cM, complete sequence

```
Seq. No.
                  140343
Seq. ID
                  LIB25-007-Q1-E1-B11
Method
                  BLASTN
NCBI GI
                  g3241922
BLAST score
                  126
                  1.0e-64
E value
Match length
                  281
% identity
                  93
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MLM24, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140344
Seq. ID
                  LIB25-007-Q1-E1-B9
Method
                  BLASTX
NCBI GI
                  q3510251
BLAST score
                  221
E value
                   4.0e-18
Match length
                  78
% identity
                  51
NCBI Description (AC005310) unknown protein [Arabidopsis thaliana]
                  140345
Seq. No.
Seq. ID
                  LIB25-007-Q1-E1-D1
Method
                  BLASTN
NCBI GI
                  q2351064
BLAST score
                  56
E value
                  3.0e-23
Match length
                  92
% identity
                  90
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MDJ22, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140346
Seq. ID
                  LIB25-007-Q1-E1-D10
Method
                  BLASTX
NCBI GI
                  g1173018
BLAST score
                  206
E value
                  1.0e-16
Match length
                  68
                  62
% identity
NCBI Description
                  60S RIBOSOMAL PROTEIN L2 >gi 1076399 pir S54250 ribosomal
                  protein L2 - Arabidopsis thaliana >gi 798818_emb_CAA60445_
                  (X86765) 60S ribosomal protein L2 [Arabidopsis thaliana]
                  140347
Seq. No.
Seq. ID
                  LIB25-007-Q1-E1-D11
Method
                  BLASTX
NCBI GI
                  g2497886
BLAST score
                  300
E value
                  3.0e-27
Match length
                  54
% identity
NCBI Description
                  METALLOTHIONEIN-LIKE PROTEIN 2B (MT-2B)
                  >gi_1361999_pir__S57862 metallothionein 2b - Arabidopsis
                  thaliana >gi 1086463 (U11256) metallothionein [Arabidopsis
```

thaliana]

Seq. ID

```
Seq. No.
                   140348
Seq. ID
                   LIB25-007-Q1-E1-D12
Method
                   BLASTN
NCBI GI
                   g4262221
BLAST score
                   36
E value
                   1.0e-10
Match length
                   193
% identity
NCBI Description
                   Arabidopsis thaliana chromosome II BAC F10A8 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
                   140349
Seq. No.
Seq. ID
                   LIB25-007-Q1-E1-F6
Method
                   BLASTN
NCBI GI
                   a4191771
BLAST score
                   173
E value
                   1.0e-92
Match length
                   221
                   100
% identity
                   Arabidopsis thaliana chromosome II BAC F3P11 genomic.
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140350
Seq. ID
                   LIB25-007-Q1-E1-F8
Method
                   BLASTX
NCBI GI
                   g2947069
BLAST score
                   343
                   2.0e-32
E value
Match length
                   65
% identity
                   100
                   (AC002521) putative pectate lyase [Arabidopsis thaliana]
NCBI Description
                   140351
Seq. No.
                   LIB25-007-Q1-E1-G8
Seq. ID
Method
                   BLASTX
NCBI GI
                   q544075
BLAST score
                   371
                   1.0e-35
E value
                   87
Match length
% identity
                   COATOMER BETA' SUBUNIT (BETA'-COAT PROTEIN) (BETA'-COP)
NCBI Description
                   (P102) >gi_486768_pir__S35312 coatomer complex chain beta'
                   - bovine >gi_312732_emb_CAA51285_ (X72756) beta prime cop
                   [Bos taurus]
Seq. No.
                   140352
Seq. ID
                   LIB25-007-Q1-E1-H10
Method
                   BLASTX
NCBI GI
                   g3882297
BLAST score
                   404
                   2.0e-39
E value
                   109
Match length
% identity
                   (AB018331) KIAA0788 protein [Homo sapiens]
NCBI Description
Seq. No.
                   140353
```

LIB25-007-Q1-E1-H11

Seq. ID

```
BLASTN
Method
NCBI GI
                  g3212846
BLAST score
                  233
E value
                  1.0e-128
Match length
                  254
                  97
% identity
                  Arabidopsis thaliana chromosome II BAC F6E13 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140354
                  LIB25-007-Q1-E1-H6
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2618602
BLAST score
                  115
E value
                  4.0e-58
Match length
                  247
% identity
                  87
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MSJ1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140355
Seq. ID
                  LIB25-007-Q1-E1-H7
Method
                  BLASTN
NCBI GI
                  q2351068
BLAST score
                  371
E value
                  0.0e + 00
Match length
                  371
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MRH10, complete sequence [Arabidopsis thaliana]
                  140356
Seq. No.
Seq. ID
                  LIB25-008-Q1-E1-A2
Method
                  BLASTX
NCBI GI
                  g728867
BLAST score
                  158
E value
                  1.0e-10
Match length
                  140
                  27
% identity
NCBI Description
                  ANTER-SPECIFIC PROLINE-RICH PROTEIN APG PRECURSOR
                  >gi_99694_pir__S21961 proline-rich protein APG -
                  Arabidopsis thaliana >gi_22599_emb_CAA42925_ (X60377) APG
                  [Arabidopsis thaliana]
                  140357
Seq. No.
Seq. ID
                  LIB25-008-Q1-E1-C7
Method
                  BLASTX
NCBI GI
                  q2493133
BLAST score
                  186
                  7.0e-14
E value
Match length
                  75
% identity
NCBI Description
                  VACUOLAR ATP SYNTHASE SUBUNIT D (V-ATPASE D SUBUNIT)
                  >gi 2183244 (AF002134) Vma8p [Candida albicans]
Seq. No.
```

LIB25-008-Q1-E1-E5

NCBI GI

```
BLASTX
Method
NCBI GI
                   q1416514
                   69
BLAST score
E value
                   6.0e-40
                   109
Match length
                   81
% identity
                   (D63168) CTP:phosphocholine cytidylyltransferase (Brassica
NCBI Description
                   napus]
                   140359
Seq. No.
                  LIB25-008-Q1-E1-F3
Seq. ID
                   BLASTN
Method
                   g4193383
NCBI GI
                   80
BLAST score
                   2.0e-37
E value
Match length
                   144
                   100
% identity
                  Arabidopsis thaliana ribosomal protein S27 (ARS27A) gene,
NCBI Description
                   complete cds
                   140360
Seq. No.
                   LIB25-008-Q1-E1-G3
Seq. ID
                   BLASTN
Method
                   g4376087
NCBI GI
                   100
BLAST score
                   5.0e-49
E value
Match length
                   301
                   93
% identity
                   Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
NCBI Description
                   fragment No
                   140361
Seq. No.
Seq. ID
                   LIB25-008-Q1-E1-H3
Method
                   BLASTN
                   g4538918
NCBI GI
                   413
BLAST score
E value
                   0.0e+00
Match length
                   417
                   100
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F20B18
NCBI Description
                   (ESSA project)
                   140362
Seq. No.
                   LIB25-009-Q1-E1-A1
Seq. ID
Method
                   BLASTN
                   g3046855
NCBI GI
                   133
BLAST score
                   1.0e-68
E value
Match length
                   357
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MSL1, complete sequence [Arabidopsis thaliana]
                   140363
Seq. No.
                   LIB25-009-Q1-E1-A4
Seq. ID
                   BLASTX
Method
```

g3183491

```
242
BLAST score
                   2.0e-20
E value
Match length
                   129
% identity
                   38
                   HYPOTHETICAL 83.8 KD PROTEIN C27F2.7 IN CHROMOSOME III
NCBI Description
                   >gi 1065510 (U40419) C27F2.7 gene product [Caenorhabditis
                   elegans]
Seq. No.
                   140364
Seq. ID
                   LIB25-009-Q1-E1-D11
Method
                   BLASTX
NCBI GI
                   q3757516
BLAST score
                   433
                   6.0e-43
E value
Match length
                   121
% identity
                   (AC005167) putative TMV resistance protein [Arabidopsis
NCBI Description
                   thaliana]
                   140365
Seq. No.
                   LIB25-009-Q1-E1-E1
Seq. ID
                   BLASTX
Method
NCBI GI
                   q4098572
BLAST score
                   73
                   1.2e+00
E value
Match length
                   78
% identity
                   26
                   (U79569) no arches [Homo sapiens]
NCBI Description
                   140366
Seq. No.
Seq. ID
                   LIB25-009-Q1-E1-E3
Method
                   BLASTN
                   q4589437
NCBI GI
BLAST score
                   332
                   0.0e + 00
E value
Match length
                   380
% identity
                   100
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MPN9, complete sequence
                   140367
Seq. No.
Seq. ID
                   LIB25-009-Q1-E1-F5
Method
                   BLASTN
NCBI GI
                   g2244829
                   91
BLAST score
                   5.0e-44
E value
Match length
                   127
% identity
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                   fragment No
                   140368
Seq. No.
Seq. ID
                   LIB25-009-Q1-E1-G10
                   BLASTX
Method
                   q729406
NCBI GI
BLAST score
                   190
                   2.0e-14
E value
```

```
59
Match length
                  59
% identity
                  ELONGATION FACTOR P (EF-P) >gi 421056 pir_S34443
NCBI Description
                  translation elongation factor EF-P - Escherichia coli
                  >gi 433670 emb CAA43851_ (X61676) elongation factor P
                  [Escherichia coli] >gi 536991 (U14003) elongation factor P
                  [Escherichia coli] >gi 1790590 (AE000487) elongation factor
                  P (EF-P) [Escherichia coli]
Seq. No.
                  140369
                  LIB25-009-Q1-E1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2245138
BLAST score
                  223
E value
                  3.0e-18
Match length
                  85
% identity
                  (Z97344) hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140370
                  LIB25-009-Q1-E1-G6
Seq. ID.
Method
                  BLASTX
NCBI GI
                  q131398
BLAST score
                  533
                  1.0e-54
E value
Match length
                  123
                  88
% identity
NCBI Description
                  PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR
                  >gi_72714_pir__F2MU10 photosystem II 10K protein precursor
                  - Arabidopsis thaliana >gi 16447 emb CAA39441 (X55970)
                  photosystem II 10 kDa polypeptide [Arabidopsis thaliana]
                  >gi_3152571 (AC002986) Match to photosystem II 10kDa
                  polypeptide gb X55970. ESTs gb_Z17693, gb_N37616,
                  gb_T41858, gb_T88021, gb_R37531, gb_T04679, gb_N37520,
                  gb N64965, gb Z17592 and gb N65338, gb N37466 and gb T45400
                  come from this gene. [Arabidopsis
                  140371
Seq. No.
Seq. ID
                  LIB25-009-Q1-E1-H4
Method
                  BLASTX
NCBI GI
                  g3822223
BLAST score
                  390
                  5.0e-38
E value
Match length
                  104
% identity
                  (AF077955) branched-chain alpha keto-acid dehydrogenase E1
NCBI Description
                  alpha subunit [Arabidopsis thaliana]
Seq. No.
                  140372
Seq. ID
                  LIB25-010-Q1-E1-A8
Method
                  BLASTN
NCBI GI
                  q2924731
BLAST score
                  54
                  5.0e-22
E value
Match length
                  123
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
```

## MSI17, complete sequence [Arabidopsis thaliana]

```
Seq. No.
                   140373
Seq. ID
                   LIB25-010-Q1-E1-B3
Method
                   BLASTN
NCBI GI
                   g1931636
BLAST score
                   63
E value
                   7.0e-27
Match length
                   196
% identity
                   89
                   Arabidopsis thaliana BAC T19D16 genomic sequence
NCBI Description
Seq. No.
                   140374
Seq. ID
                   LIB25-010-Q1-E1-E12
Method
                   BLASTX
NCBI GI
                   g464707
                   727
BLAST score
E value
                   3.0e-77
Match length
                   141
% identity
                   .99
NCBI Description
                   40S RIBOSOMAL PROTEIN S18 >gi 480908 pir S37496 ribosomal
                   protein S18.A - Arabidopsis thaliana
                   >gi_405613_emb_CAA80684_ (Z23165) ribosomal protein S18A
                   [Arabidopsis thaliana] >gi_434343_emb_CAA82273_ (Z28701)
                   S18 ribosomal protein [Arabidopsis thaliana]
                   >gi_434345_emb_CAA82274_ (Z28702) S18 ribosomal protein
                   [Arabidopsis thaliana] >gi 434906 emb CAA82275 (Z28962)
                   S18 ribosomal protein [Arabidopsis thaliana]
                   >gi_2505871_emb_CAA72909_ (Y12227) ribosomal protein S18A
                   [Arabidopsis thaliana] >gi_3287678 (AC003979) Match to
                   ribosomal S18 gene mRNA gb_Z28701, DNA gb_Z23165 from A. thaliana. ESTs gb_T21121, gb_Z17755, gb_R64776 and
                   gb_R30430 come from this gene. [Arabidopsis thaliana]
                   >gi_4538910_emb_CAB39647.1_ (AL049482) S18.A ribosomal
                   protein [Arabidopsis thaliana]
Seq. No.
                   140375
Seq. ID
                   LIB25-010-Q1-E1-E8
Method
                   BLASTX
NCBI GI
                   q3024528
BLAST score
                   596
E value
                   6.0e-62
Match length
                   118
% identity
                   RAS-RELATED PROTEIN RAB2BV >gi_974778_emb_CAA89049_
NCBI Description
                   (Z49190) small G protein [Beta vulgaris]
Seq. No.
                   140376
Seq. ID
                   LIB25-010-Q1-E1-F6
Method
                   BLASTX
NCBI GI
                   q3860277
BLAST score
                   567
E value
                   1.0e-58
Match length
                   138
% identity
NCBI Description
                   (AC005824) putative ribosomal protein L10 [Arabidopsis
```

thaliana] >gi\_4314394\_gb\_AAD15604\_ (AC006232) putative

## ribosomal protein L10A [Arabidopsis thaliana] 140377

Seq. No. 140377 Seq. ID LIB25-010-Q1-E1-F8

Method BLASTX
NCBI GI g2749752
BLAST score 147
E value 3.0e-09
Match length 133
% identity 37

NCBI Description (AL021086) /prediction=(method:; /match=(desc:;

/match=(desc:; /match=(desc: [Drosophila

melanogaster]

Seq. No. 140378

Seq. ID LIB25-010-Q1-E1-G6

Method BLASTX
NCBI GI g3152576
BLAST score 412
E value 2.0e-40
Match length 136
% identity 58

NCBI Description (AC002986) Similar to liver-specific transport protein qb L27651 from Rattus norviegicus. [Arabidopsis thaliana]

Seq. No. 140379

Seq. ID LIB25-011-Q1-E1-B1

Method BLASTX
NCBI GI g2344896
BLAST score 135
E value 5.0e-08
Match length 110
% identity 7

NCBI Description (AC002388) hypothetical protein [Arabidopsis thaliana]

Seq. No. 140380

Seq. ID LIB25-011-Q1-E1-B10

Method BLASTN
NCBI GI g2618605
BLAST score 363
E value 0.0e+00
Match length 394
% identity 100

NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:

MUK11, complete sequence [Arabidopsis thaliana]

Seq. No. 140381

Seq. ID LIB25-011-Q1-E1-B2

Method BLASTX
NCBI GI g3549678
BLAST score 578
E value 8.0e-60
Match length 126
% identity 90

NCBI Description (ALO31394) putative aspartate--tRNA ligase [Arabidopsis

thaliana]

Seq. No.

```
Seq. No.
                   140382
 Seq. ID
                   LIB25-011-Q1-E1-B8
 Method
                   BLASTX
 NCBI GI
                   g3337361
 BLAST score
                   226
 E value
                   2.0e-71
 Match length
                   142
 % identity
                   94
 NCBI Description (AC004481) ankyrin-like protein [Arabidopsis thaliana]
 Seq. No.
                   140383
 Seq. ID
                   LIB25-011-Q1-E1-C7
 Method
                   BLASTN
 NCBI GI
                   g3821780
 BLAST score
                   25
 E value
                   4.0e-04
 Match length
                   36
 % identity
                   60
 NCBI Description Xenopus laevis cDNA clone 27A6-1
 Seq. No.
                   140384
 Seq. ID
                   LIB25-011-Q1-E1-D10
 Method
                   BLASTX
 NCBI GI
                   g1550740
 BLAST score
                   748
 E value
                   9.0e-80
Match length
                   144
 % identity
                   99
NCBI Description (Y07961) GDP-associated inhibitor [Arabidopsis thaliana]
Seq. No.
                   140385
Seq. ID
                   LIB25-011-Q1-E1-F12
Method
                   BLASTX
NCBI GI
                   q4235093
BLAST score
                   244
E value
                   1.0e-20
Match length
                   91
% identity
                   48
NCBI Description (AF108944) beta-xylosidase [Aspergillus niger]
Seq. No.
                   140386
Seq. ID
                   LIB25-011-Q1-E1-F6
Method
                   BLASTX
NCBI GI
                   q115767
BLAST score
                   594
E value
                   9.0e-62
Match length
                  114
% identity
                   99
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                   (CAB-165/180) (LHCP) >gi_81603 pir A29280 chlorophyll
                  a/b-binding protein ab165 - Arabidopsis thaliana
                  >gi_16368_emb_CAA27540_ (X03907) chlorophyll a/b binding
                  protein (LHCP AB 65) [Arabidopsis thaliana]
                  >gi 16372_emb_CAA27541_ (X03908) chlorophyll a/b binding
                  protein (LHCP AB 180) [Arabidopsis thaliana]
```

Seq. ID

```
Seq. ID
                  LIB25-011-Q1-E1-F7
Method
                  BLASTN
NCBI GI
                  g2760167
BLAST score
                  47
E value
                  1.0e-17
Match length
                  110
% identity
                  84
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MCO15, complete sequence [Arabidopsis thaliana]
                  140388
Seq. No.
Seq. ID
                  LIB25-011-Q1-E1-F8
Method
                  BLASTX
NCBI GI
                  q4186184
BLAST score
                  235
                  1.0e-19
E value
                  91
Match length
                  48
% identity
NCBI Description
                  (AF111168) unknown [Homo sapiens]
                  140389
Seq. No.
Seq. ID
                  LIB25-011-Q1-E1-G5
Method
                  BLASTX
NCBI GI
                  g2827713
BLAST score
                  722
                  1.0e-76
E value
Match length
                  143
                  100
% identity
                   (AL021684) pyridoxal-phosphate-dependent aminotransferase -
NCBI Description
                  like protein [Arabidopsis thaliana]
                  140390
Seq. No.
Seq. ID
                  LIB25-011-Q1-E1-G6
Method
                  BLASTX
NCBI GI
                  q4455273
BLAST score
                  431
E value
                  1.0e-42
Match length
                  122
                  75
% identity
                   (AL035527) subtilisin proteinase-like [Arabidopsis
NCBI Description
                  thaliana]
                  140391
Seq. No.
Seq. ID
                  LIB25-011-Q1-E1-H12
Method
                  BLASTX
NCBI GI
                  q3834325
BLAST score
                  526
                  9.0e-54
E value
Match length
                  104
% identity
                  (AC005679) Strong similarity to gb AF067141 gamma-glutamyl
NCBI Description
                  hydrolase from Arabidopsis thaliana. ESTs gb R83955,
                  gb T45062, gb T22220, gb AA586207, gb AI099851 and
                  gb AI00672 come from this gene. [Arabidopsis thaliana]
                  140392
Seq. No.
```

LIB25-012-Q1-E1-A11

Method

BLASTN

```
Method
                  BLASTN
NCBI GI
                  g3849811
BLAST score
                  193
                  1.0e-104
E value
Match length
                  214
                  97
% identity
NCBI Description
                  Arabidopsis thaliana chromosome I BAC T2P11 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140393
Seq. ID
                  LIB25-012-Q1-E1-B1
Method
                  BLASTN
NCBI GI
                  g2529657
BLAST score
                  118
                  6.0e-60
E value
                  194
Match length
% identity
                  91
                  Arabidopsis thaliana chromosome II BAC T30B22 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140394
Seq. ID
                  LIB25-012-Q1-E1-G2
Method
                  BLASTN
NCBI GI
                  q3859590
BLAST score
                  78
E value
                  7.0e-36
Match length
                  282
% identity
                  96
NCBI Description
                  Arabidopsis thaliana BAC T15B16
Seq. No.
                  140395
Seq. ID
                  LIB25-012-Q1-E1-G4
Method
                  BLASTN
NCBI GI
                  q3128138
BLAST score
                  234
E value
                  1.0e-129
Match length
                  234
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MFO20, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140396
Seq. ID
                  LIB25-012-Q1-E1-H10
Method
                  BLASTX
NCBI GI
                  g115783
BLAST score
                  483
E value
                  7.0e-49
Match length
                  91
% identity
                  100
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                  (CAB-140) (LHCP) >qi 16376 emb CAA27543 (X03909)
                  chlorophyll a/b binding protein (LHCP AB 140) [Arabidopsis
                  thaliana]
Seq. No.
                  140397
                  LIB25-012-Q1-E1-H8
Seq. ID
```

Method

BLASTX

```
NCBI GI
                   g3868723
                   297
BLAST score
                   1.0e-166
E value
                   297
Match length
                   64
% identity
                   Arabidopsis thaliana chromosome V map 60.5 cM, complete
NCBI Description
                   sequence [Arabidopsis thaliana]
                   140398
Seq. No.
                   LIB25-013-Q1-E1-B4
Seq. ID
Method
                   BLASTN
NCBI GI
                   q2182287
BLAST score
                   228
E value
                   1.0e-125
                   228
Match length
                   100
% identity
                   Genomic sequence for Arabidopsis thaliana BAC T7N9,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
Seq. No.
                   140399
                   LIB25-013-Q1-E1-C8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g115783
BLAST score
                   470
E value
                   3.0e-47
Match length
                   90
% identity
                   99
                   CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                   (CAB-140) (LHCP) >gi 16376 emb CAA27543_ (X03909)
                   chlorophyll a/b bind\overline{\text{ing protein}} (LHCP \overline{\text{AB}} 140) [Arabidopsis
                   thaliana]
Seq. No.
                   140400
Seq. ID
                   LIB25-013-Q1-E1-F6
Method
                   BLASTX
NCBI GI
                   g2459435
BLAST score
                   569
E value
                   7.0e-59
Match length
                   120
% identity
NCBI Description
                   (AC002332) putative serine carboxypeptidase [Arabidopsis
                   thaliana]
Seq. No.
                   140401
Seq. ID
                   LIB25-013-Q1-E1-H6
Method
                   BLASTN
NCBI GI
                   q3849811
BLAST score
                   205
E value
                   1.0e-112
Match length
                   226
                   97
% identity
                   Arabidopsis thaliana chromosome I BAC T2P11 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140402
Seq. No.
                   LIB25-013-Q1-E1-H9
Seq. ID
```

```
NCBI GI
                   g4006913
BLAST score
                   476
E value
                   6.0e-48
Match length
                   100
% identity
                   95
NCBI Description
                   (Z99708) hypothetical protein [Arabidopsis thaliana]
Seq. No.
                   140403
Seq. ID
                   LIB25-014-Q1-E1-A5
Method
                   BLASTN
NCBI GI
                   g3869064
BLAST score
                   196
E value
                   1.0e-106
Match length
                   366
% identity
                   98
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                   K1013, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140404
Seq. ID
                   LIB25-014-Q1-E1-C1
Method
                   BLASTX
NCBI GI
                   g4704732
BLAST score
                   178
                   6.0e-38
E value
Match length
                   83
% identity
                   (AF121356) peroxiredoxin TPx2 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140405
Seq. ID
                   LIB25-014-Q1-E1-C3
Method
                   BLASTX
NCBI GI
                   g4507081
BLAST score
                   165
E value
                   7.0e-12
Match length
                   78
% identity
                   40
                   SWI/SNF related, matrix associated, actin dependent
NCBI Description
                   regulator of chromatin, subfamily c, member 2 >qi 1549241
                   (U66616) SWI/SNF complex 170 KDa subunit [Homo sapiens]
Seq. No.
                   140406
Seq. ID
                   LIB25-014-Q1-E1-D10
Method
                   BLASTN
NCBI GI
                   g2264315
BLAST score
                   98
E value
                   3.0e-48
Match length
                   130
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MRN17, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140407
Seq. ID
                  LIB25-014-Q1-E1-E11
Method
                   BLASTX
NCBI GI
                   g4587552
BLAST score
                   650
E value
                   2.0e-68
```

Method

BLASTN

```
128
Match length
                  99
% identity
                   (AC006577) Strong similarity to gb S77096 aldehyde
NCBI Description
                  dehydrogenase homolog from Brassica napus and is a member
                  of PF_00171 Aldehyde dehydrogenase family. ESTs gb_T46213,
                  gb_T42164, gb_T43682, gb_N96380, gb_T42973, gb
Seq. No.
Seq. ID
                  LIB25-014-Q1-E1-E5
Method
                  BLASTN
NCBI GI
                  q853718
BLAST score
                  150
E value
                  7.0e-79
Match length
                  229
% identity
                  100
NCBI Description
                  A.thaliana mRNA for cytochrome P450
                  140409
Seq. No.
                  LIB25-014-Q1-E1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q99696
BLAST score
                  439
E value
                  1.0e-43
Match length
                  110
% identity
NCBI Description
                  glutamate--ammonia ligase (EC 6.3.1.2) precursor,
                  chloroplast (clone lambdaAtgsl1) - Arabidopsis thaliana
                  >gi_240070_bbs_69728 (S69727) light-regulated glutamine
                  synthetase isoenzyme [Arabidopsis thaliana, Peptide, 430
                  aa] [Arabidopsis thaliana] >gi_228453_prf_ 1804333A Gln
                  synthetase [Arabidopsis thaliana]
Seq. No.
                  140410
                  LIB25-014-Q1-E1-G11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4038037
BLAST score
                  105
                  2.0e-04
E value
                  131
Match length
% identity
                   (AC005936) hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140411
                  LIB25-014-Q1-E1-H3
Seq. ID
Method
                  BLASTX
                  q1169422
NCBI GI
BLAST score
                  306
E value
                  5.0e-28
Match length
                  72
% identity
                  DIHYDROFOLATE REDUCTASE 1 / THYMIDYLATE SYNTHASE 1
NCBI Description
                   (DHFR-TS) >qi 289193 (L08593) dihydrofolate
                  reductase-thymidylate synthase [Arabidopsis thaliana]
                  140412
Seq. No.
                  LIB25-015-Q1-E1-D4
Seq. ID
```

E value

```
NCBI GI
                   q4469002
BLAST score
                   321
                  0.0e + 00
E value
Match length
                   321
                   100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T29A15
NCBI Description
                   (ESSA project)
Seq. No.
                   140413
                   LIB25-015-Q1-E1-E9
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4159706
                   259
BLAST score
                   1.0e-144
E value
Match length
                   259
                   100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MGL6, complete sequence
                   140414
Seq. No.
                   LIB25-015-Q1-E1-F10
Seq. ID
                   BLASTX
Method
                   g4678949
NCBI GI
                   544
BLAST score
                   6.0e-56
E value
Match length
                   111
% identity
                   62
                   (AL049711) dihydrolipoamide S-acetyltransferase precursor
NCBI Description
                   [Arabidopsis thaliana]
                   140415
Seq. No.
                   LIB25-015-Q1-E1-F6
Seq. ID
Method
                   BLASTX
                   g1345592
NCBI GI
                   568
BLAST score
                   1.0e-58
E value
Match length
                   115
% identity
                   100
                   14-3-3-LIKE PROTEIN GF14 EPSILON >gi 1022778 (U36446) GF14
NCBI Description
                   epsilon isoform [Arabidopsis thaliana]
                   140416
Seq. No.
                   LIB25-016-Q1-E1-C8
Seq. ID
                   BLASTN
Method
                   g3047074
NCBI GI
                   170
BLAST score
                   6.0e-91
E value
Match length
                   238
                   98
% identity
NCBI Description Arabidopsis thaliana BAC F21E10
                   140417
Seq. No.
                   LIB25-016-Q1-E1-E10
Seq. ID
                   BLASTX
Method
                   g4337025
NCBI GI
                   265
BLAST score
```

3.0e-23

% identity

```
49
Match length
% identity
                   100
                   (AF123253) AIM1 protein [Arabidopsis thaliana]
NCBI Description
                   140418
Seq. No.
                  LIB25-016-Q1-E1-F11
Seq. ID
                   BLASTX
Method
NCBI GI
                   g113512
                   330
BLAST score
                   9.0e-31
E value
                   66
Match length
                   100
% identity
                   FLORAL HOMEOTIC PROTEIN AGL2 >gi_81610_pir__B39534 floral
NCBI Description
                   homeotic protein AGL2 - Arabidopsis thaliana >gi 166591
                   (M55551) transcription factor [Arabidopsis thaliana]
Seq. No.
                   140419
                   LIB25-016-Q1-E1-G7
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4159705
BLAST score
                   409
E value
                   0.0e + 00
Match length
                   413
% identity
                   100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                   MGD8, complete sequence
                   140420
Seq. No.
Seq. ID
                   LIB25-016-Q1-E1-H4
Method
                   BLASTN
NCBI GI
                   g2828187
BLAST score
                   293
E value
                   1.0e-164
Match length
                   365
                   100
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                 K21C13, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140421
                   LIB25-016-Q1-E1-H8
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4490291
BLAST score
                   79
E value
                   6.0e-37
Match length
                   125
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F17M5
NCBI Description
                   (ESSA project)
                   140422
Seq. No.
Seq. ID
                   LIB25-017-Q1-E1-A10
Method
                   BLASTN
NCBI GI
                   q3193311
BLAST score
                   392
E value
                   0.0e+00
Match length
                   396
```

Seq. ID

```
NCBI Description Arabidopsis thaliana BAC F6N15
                  140423
Seq. No.
                  LIB25-017-Q1-E1-A3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g166787
BLAST score
                  112
E value
                  2.0e-56
Match length
                  147
% identity
                   99
                  A.thaliana chloroplast ATP synthase gamma subunit (atpC2)
NCBI Description
                  gene, complete cds
Seq. No.
                   140424
                  LIB25-017-Q1-E1-A6
Seq. ID
Method
                  BLASTX
NCBI GI
                   g4204258
BLAST score
                   439
E value
                   7.0e-44
Match length
                   91
% identity
                   89
NCBI Description
                   (AC005223) 14409 [Arabidopsis thaliana]
Seq. No.
                   140425
Seq. ID
                  LIB25-017-Q1-E1-A7
Method
                  BLASTX
NCBI GI
                   q3420054
BLAST score
                   311
E value
                   1.0e-28
Match length
                   136
% identity
                   62
                   (AC004680) unknown protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140426
Seq. ID
                  LIB25-017-Q1-E1-A9
Method
                   BLASTN
NCBI GI
                   q3406034
BLAST score
                   100
E value
                   3.0e-49
Match length
                   157
% identity
                   98
                  BAC F18A17 from chromosome V containing TINY at 60.5 cM,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
Seq. No.
                   140427
Seq. ID
                  LIB25-017-Q1-E1-B11
Method
                   BLASTN
NCBI GI
                   g4468103
BLAST score
                   231
E value
                   1.0e-127
Match length
                   271
% identity
                   96
                  Arabidopsis thaliana DNA chromosome 4, BAC clone M3E9
NCBI Description
                   (ESSA project)
Seq. No.
                  140428
```

LIB25-017-Q1-E1-C5

```
BLASTN
Method
NCBI GI
                   g2275194
BLAST score
                   149
                   3.0e-78
E value
                   352
Match length
                   100
% identity
                  Arabidopsis thaliana chromosome II BAC T08I13 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140429
                   LIB25-017-Q1-E1-D2
Seq. ID
Method
                   BLASTN
NCBI GI
                   q3406034
BLAST score
                   91
E value
                   1.0e-43
Match length
                   292
                   100
% identity
                  BAC F18A17 from chromosome V containing TINY at 60.5 cM,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   140430
Seq. No.
                   LIB25-017-Q1-E1-D5
Seq. ID
Method
                   BLASTX
NCBI GI
                   q3004565
BLAST score
                   79
E value
                   2.0e-31
Match length
                   104
% identity
                   (AC003673) putative protein kinase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140431
                   LIB25-017-Q1-E1-E3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3184279
                   244
BLAST score
E value
                   5.0e-21
Match length
                   92
% identity
                   13
                   (AC004136) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   140432
Seq. No.
Seq. ID
                   LIB25-017-Q1-E1-F8
Method
                   BLASTX
NCBI GI
                   g2244971
                   384
BLAST score
                   3.0e-37
E value
Match length
                   103
% identity
                   (Z97340) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   140433
Seq. No.
                  LIB25-017-Q1-E1-H5
Seq. ID
Method
                  BLASTN
NCBI GI
                   q2191157
                   333
BLAST score
                   0.0e + 00
E value
                   333
Match length
```

```
% identity
                  100
NCBI Description Arabidopsis thaliana BAC IG002P16
Seq. No.
                  140434
Seq. ID
                  LIB25-018-Q1-E1-A1
Method
                  BLASTX
NCBI GI
                  q4588012
BLAST score
                  467
E value
                  7.0e-47
Match length
                  119
% identity
                  82
                  (AF085717) putative callose synthase catalytic subunit
NCBI Description
                  [Gossypium hirsutum]
Seq. No.
                  140435
                  LIB25-018-Q1-E1-B2
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4220510
BLAST score
                  189
                  1.0e-102
E value
Match length
                  189
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18
NCBI Description
                  (ESSAII project)
Seq. No.
                  140436
Seq. ID
                  LIB25-018-Q1-E1-D11
Method
                  BLASTN
NCBI GI
                  g4220510
BLAST score
                  286
                  1.0e-160
E value
                  384
Match length
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18
NCBI Description
                  (ESSAII project)
                  140437
Seq. No.
                  LIB25-018-Q1-E1-E9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3063698
                  322
BLAST score
                  6.0e-30
E value
                  109
Match length
                  58
% identity
                  (AL022537) putative protein [Arabidopsis thaliana]
NCBI Description
                  140438
Seq. No.
                  LIB25-018-Q1-E1-F1
Seq. ID
Method
                  BLASTN
                  g304114
NCBI GI
                  156
BLAST score
                  1.0e-82
E value
                  164
Match length
                  99
% identity
                  Arabidopsis thaliana thioglucosidase mRNA, complete cds
NCBI Description
```

140439

Seq. No.

```
Seq. ID
                  LIB25-018-Q1-E1-F10
                  BLASTN
Method
NCBI GI
                  g4335744
BLAST score
                  73
                  8.0e-33
E value
Match length
                  197
% identity
                  84
                  Arabidopsis thaliana chromosome II BAC T4M8 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  140440
Seq. No.
Seq. ID
                  LIB25-018-Q1-E1-H3
Method
                  BLASTX
NCBI GI
                  q4586047
                  596
BLAST score
                  6.0e-62
E value
                  129
Match length
                  92
% identity
                  (AC007020) putative ferritin protein [Arabidopsis thaliana]
NCBI Description
                  >gi_4588004_gb_AAD25945.1_AF085279_18 (AF085279)
                  hypothetical ferritin subunit [Arabidopsis thaliana]
                  140441
Seq. No.
                  LIB25-019-Q1-E1-A1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3075383
BLAST score
                  206
                  1.0e-112
E value
                  319
Match length
% identity
                  100
                  Arabidopsis thaliana chromosome II BAC T1D16 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140442
Seq. ID
                  LIB25-019-Q1-E1-A4
Method
                  BLASTN
NCBI GI
                  g3168605
BLAST score
                  176
                  1.0e-94
E value
                  176
Match length
% identity
                  100
                  Arabidopsis thaliana catalase 3 (CAT3) and catalase 1
NCBI Description
                  (CAT1) genes, complete cds
Seq. No.
                  140443
Seq. ID
                  LIB25-019-Q1-E1-A5
Method
                  BLASTN
NCBI GI
                  g2342673
BLAST score
                  387
                  0.0e + 00
E value
                  394
Match length
% identity
                  100
                  Sequence of BAC F7G19 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140444
                  LIB25-019-Q1-E1-B10
Seq. ID
```

```
BLASTX
Method
NCBI GI
                   g3413717
BLAST score
                   613
                   6.0e-64
E value
Match length
                   117
                   100
% identity
                   (AC004747) unknown protein [Arabidopsis thaliana]
NCBI Description
                   >gi 3643590 (AC005395) unknown protein [Arabidopsis
                   thaliana]
                   140445
Seq. No.
                   LIB25-019-Q1-E1-B7
Seq. ID
Method
                   BLASTN
NCBI GI
                   q3608126
                   71
BLAST score
                   2.0e-32
E value
Match length
                   71
                   100
% identity
                   Arabidopsis thaliana chromosome II BAC T32F12 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140446
Seq. No.
                   LIB25-019-Q1-E1-C6
Seq. ID
Method
                   BLASTN
NCBI GI
                   q555975
BLAST score
                   107
E value
                   1.0e-53
Match length
                   107
% identity
                   100
NCBI Description
                   Arabidopsis thaliana metallothionein-like protein (AtMT-K)
                   mRNA, complete cds
Seq. No.
                   140447
Seq. ID
                   LIB25-019-Q1-E1-D9
Method
                   BLASTX
NCBI GI
                   g1172873
BLAST score
                   642
E value
                   2.0e-67
Match length
                   127
% identity
                   100
                   CYSTEINE PROTEINASE RD21A PRECURSOR >gi_541857_pir__JN0719
NCBI Description
                   drought-inducible cysteine proteinase (\overline{\text{EC}} 3.4.\overline{22}.-) RD21A
                   precursor - Arabidopsis thaliana >gi 435619 dbj_BAA02374_
                   (D13043) thiol protease [Arabidopsis thaliana]
                   140448
Seq. No.
Seq. ID
                   LIB25-019-Q1-E1-E5
Method
                   BLASTX
NCBI GI
                   q267069
BLAST score
                   631
E value
                   5.0e-66
Match length
                   117
% identity
                   100
                   TUBULIN ALPHA-2/ALPHA-4 CHAIN >gi_320183_pir__JQ1594
NCBI Description
                   tubulin alpha chain - Arabidopsis thaliana >gi 166914
                   (M84696) apha-2 tubulin [Arabidopsis thaliana] >gi_166916
```

(M84697) alpha-4 tubulin [Arabidopsis thaliana]

```
Seq. No.
                  140449
Seq. ID
                  LIB25-019-Q1-E1-E8
Method
                  BLASTX -
NCBI GI
                  q549975
BLAST score
                  718
E value
                   3.0e-76
Match length
                  143
                   99
% identity
NCBI Description
                   (U12858) nucleosome assembly protein I-like protein;
                   similar to mouse nap I, PIR Accession Number JS0707
                   [Arabidopsis thaliana]
Seq. No.
                  140450
Seq. ID
                  LIB25-019-Q1-E1-F1
Method
                  BLASTN
NCBI GI
                  g3668073
BLAST score
                  235
E value
                   1.0e-129
                  259
Match length
                   97
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T4C15 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140451
Seq. ID
                  LIB25-019-Q1-E1-G11
Method
                  BLASTX
NCBI GI
                  q4415907
BLAST score
                  553
E value
                   6.0e-57
Match length
                  110
% identity
                  98
NCBI Description
                   (AC006282) 60S ribosomal protein L24 [Arabidopsis thaliana]
                  >gi_4581159_gb_AAD24643.1_AC006919_21 (AC006919) putative
                  60S ribosomal protein L24 [Arabidopsis thaliana]
Seq. No.
                  140452
Seq. ID
                  LIB25-019-Q1-E1-G8
Method
                  BLASTN
NCBI GI
                  q2264313
BLAST score
                  210
E value
                  1.0e-115
                  210
Match length
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MOP10, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140453
Seq. ID
                  LIB25-020-Q1-E1-A4
Method
                  BLASTX
NCBI GI
                  g1778015
BLAST score
                  237
E value
                  2.0e-20
Match length
                  59
                  76
% identity
NCBI Description
                  (U59508) osmotic stress-induced proline dehydrogenase
                  [Arabidopsis thaliana]
```

```
140454
Seq. No.
Seq. ID
                   LIB25-020-Q1-E1-B3
Method
                   BLASTX
NCBI GI
                   g3860420
BLAST score
                   168
E value
                   6.0e-12
                   70
Match length
% identity
                   (AJ011047) exo galactanase [Lupinus angustifolius]
NCBI Description
Seq. No.
                   140455
Seq. ID
                   LIB25-020-Q1-E1-C11
                   BLASTN
Method
NCBI GI
                   g4589434
                   376
BLAST score
                   0.0e+00
E value
Match length
                   380
                   78
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MNJ7, complete sequence
                   140456
Seq. No.
Seq. ID
                   LIB25-020-Q1-E1-D4
Method
                   BLASTN -
NCBI GI
                   g2832667
BLAST score
                   51
                   8.0e-20
E value
                   51
Match length
                   100
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone T10I14
NCBI Description
                   (ESSAII project)
Seq. No.
                   140457
Seq. ID
                   LIB25-020-Q1-E1-D8
Method
                   BLASTN
NCBI GI
                   q4159705
                   201
BLAST score
E value
                   1.0e-109
                   305
Match length
                   100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MGD8, complete sequence
                   140458
Seq. No.
Seq. ID
                   LIB25-020-Q1-E1-E4
Method
                   BLASTN
NCBI GI
                   g3869074
BLAST score
                   419
E value
                   0.0e+00
                   430
Match length
% identity
                   100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MMI9, complete sequence [Arabidopsis thaliana]
                   140459
Seq. No.
                   LIB25-020-Q1-E1-E5
Seq. ID
```

Match length

```
Method
                  BLASTX
NCBI GI
                  g577301
BLAST score
                   200
                   2.0e-15
E value
Match length
                  121
                   40
% identity
NCBI Description
                   (D42044) The ha3523 gene product is related to S.cerevisiae
                  gene product located in chromosome III. [Homo sapiens]
Seq. No.
                  140460
Seq. ID
                  LIB25-020-Q1-E1-F6
Method
                  BLASTX
NCBI GI
                  g3805849
BLAST score
                   334
E value
                   3.0e-31
Match length
                   65
                   98
% identity
                   (AL031986) cytoplasmatic aconitate hydratase (citrate
NCBI Description
                  hydro-lyase) (aconitase) (EC 4.2.1.3) [Arabidopsis thaliana]
Seq. No.
                   140461
                  LIB25-020-Q1-E1-G10
Seq. ID
Method
                  BLASTX
NCBI GI
                   g1871199
BLAST score
                   165
E value
                   2.0e-11
Match length
                  131
% identity
                   17
                  (U91318) pM5 (3' partial) [Homo sapiens]
NCBI Description
Seq. No.
                   140462
                  LIB25-020-Q1-E1-H3
Seq. ID
Method
                  BLASTX
NCBI GI
                   q4567303
BLAST score
                   546
E value
                   4.0e-56
Match length
                  102
% identity
                   100
                   (AC005956) unknown protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140463
                  LIB25-020-Q1-E1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                   g4826435
                  89
BLAST score
E value
                   1.8e-02
Match length
                   98
% identity
                   (AL031447) dJ126A5.4 (KIAA0469) [Homo sapiens]
NCBI Description
Seq. No.
                   140464
Seq. ID
                  LIB25-021-Q1-E1-A2
Method
                  BLASTN
NCBI GI
                  g4589434
BLAST score
                  174
E value
                   3.0e-93
```

% identity

```
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MNJ7, complete sequence
Seq. No.
                   140465
Seq. ID
                   LIB25-021-Q1-E1-A5
Method
                   BLASTX
NCBI GI
                   g2688544
BLAST score
                   216
                   2.0e-17
E value
Match length
                   108
% identity
                   38
NCBI Description
                   (AE001163) 4-methyl-5(b-hydroxyethyl)-thiazole
                   monophosphate biosynthesis protein (thiJ) [Borrelia
                   burgdorferi]
                   140466
Seq. No.
Seq. ID
                   LIB25-021-Q1-E1-C2
Method
                   BLASTX
NCBI GI
                   g3549681
BLAST score
                   443
E value
                   5.0e-44
Match length
                   123
% identity
                   78
NCBI Description
                   (AL031394) male sterility 2-like protein [Arabidopsis
                   thaliana]
                   140467
Seq. No.
Seq. ID
                   LIB25-021-Q1-E1-D3
Method
                   BLASTX
NCBI GI
                   g16374
BLAST score
                   359
E value
                   3.0e - 34
Match length
                   69
% identity
                   100
NCBI Description
                   (X03908) chlorophyll a/b binding protein (LHCP AB 180)
                   [Arabidopsis thaliana]
Seq. No.
                   140468
Seq. ID
                   LIB25-021-Q1-E1-E8
Method
                   BLASTX
NCBI GI
                   g3805846
BLAST score
                   717
E value
                   4.0e-76
Match length
                   138
% identity
NCBI Description
                   (AL031986) DNA-directed RNA polymerase (EC 2.7.7.6) II
                   largest chain [Arabidopsis thaliana]
Seq. No.
                   140469
Seq. ID
                   LIB25-021-Q1-E1-F6
Method
                   BLASTN
NCBI GI
                   q166589
BLAST score
                   104
E value
                   1.0e-51
Match length
                   216
```

```
Arabidopsis thaliana transcription factor (AGL2) mRNA,
NCBI Description
                  complete cds
                  140470
Seq. No.
Seq. ID
                  LIB25-021-Q1-E1-G1
Method
                  BLASTN
NCBI GI
                  g4220627
BLAST score
                  326
                  0.0e + 00
E value
Match length
                  366
                  99
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K20J1, complete sequence [Arabidopsis thaliana]
                  140471
Seq. No.
Seq. ID
                  LIB25-021-Q1-E1-G5
Method
                  BLASTN
NCBI GI
                  g3193282
BLAST score
                  252
E value
                  1.0e-140
                 300
Match length
                  100
% identity
NCBI Description Arabidopsis thaliana BAC T14P8
Seq. No.
                  140472
Seq. ID
                  LIB25-021-Q1-E1-H11
Method
                  BLASTX
NCBI GI
                  g2507587
BLAST score
                  284
                  2.0e-25
E value
Match length
                  57
                  88
% identity
                  METALLOTHIONEIN-LIKE PROTEIN 2A (MT-2A) (MT-K) (MT-1G)
NCBI Description
                  >gi 1361998 pir S57861 metallothionein 2a - Arabidopsis
                  thaliana >gi_555976 (U15108) metallothionein-like protein
                  [Arabidopsis thaliana] >gi_1580892_prf__2116236A
                  metallothionein 1 [Arabidopsis thaliana]
                  140473
Seq. No.
Seq. ID
                  LIB25-021-Q1-E1-H9
Method
                  BLASTX
NCBI GI
                  g2244866
                  379
BLAST score
                  2.0e-36
E value
Match length
                  117
% identity
                  56
                  (Z97337) hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140474
Seq. ID
                  LIB25-022-Q1-E1-C8
Method
                  BLASTN
NCBI GI
                  g3985957
BLAST score
                  222
                  1.0e-121
E value
                  424
Match length
                  100
% identity
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
```

% identity .

## MYN8, complete sequence [Arabidopsis thaliana] 140475 Seq. No. Seq. ID LIB25-022-Q1-E1-D11 Method BLASTX NCBI GI g2443886 BLAST score 446 E value 2.0e-44 Match length 89 % identity 100 (AC002294) Unknown protein [Arabidopsis thaliana] NCBI Description Seq. No. 140476 Seq. ID LIB25-022-Q1-E1-D12 Method BLASTX NCBI GI g3157937 BLAST score 699 É value 5.0e-74 Match length 138 % identity 99 NCBI Description (AC002131) Identical to aspartic proteinase cDNA gb U51036 from A. thaliana. ESTs gb N96313, gb T21893, gb R30158, gb\_T21482, gb\_T43650, gb\_R64749, gb\_R65157, gb\_T88269, gb\_T44552, gb\_T22542, gb\_T76533, gb\_T44350, gb\_Z34591, gb\_AA728734, gb Seq. No. 140477 Seq. ID LIB25-022-Q1-E1-D9 Method BLASTX NCBI GI g1619956 BLAST score 434 E value 6.0e-43 Match length 96 % identity NCBI Description (U72151) voltage-gated chloride channel [Arabidopsis thaliana 140478 Seq. No. Seq. ID LIB25-022-Q1-E1-E11 Method BLASTX NCBI GI g4587514 BLAST score 282 E value 4.0e-25 Match length 54 % identity NCBI Description (AC007060) Similar to WO8E3.3 gi\_3880615 putative GTP-binding protein from C. elegans cosmid gb Z92773. EST gb AA597331 comes from this gene. [Arabidopsis thaliana] 140479 Seq. No. Seq. ID LIB25-022-Q1-E1-F11 Method BLASTN NCBI GI q4757395 BLAST score 66 E value 5.0e-29 Match length 136

```
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K21L13, complete sequence
Seq. No.
                   140480
Seq. ID
                  LIB25-022-Q1-E1-F9
Method
                  BLASTN
NCBI GI
                  g2494106
BLAST score
                   431
E value
                   0.0e + 00
Match length
                   431
% identity
                   100
NCBI Description
                  Arabidopsis thaliana chromosome 1 YAC YUP8H12R sequence,
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  140481
Seq. ID
                  LIB25-023-Q1-E1-A11
Method
                  BLASTN
NCBI GI
                  g3763944
BLAST score
                  303
                  1.0e-170
E value
Match length
                  307
% identity
                  78
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F28A23
                   (ESSAII project)
Seq. No.
                  140482
Seq. ID
                  LIB25-023-Q1-E1-A4
Method
                  BLASTN
NCBI GI
                  g2275194
BLAST score
                  295
E value
                  1.0e-165
Match length
                  298
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T08I13 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
                  140483
Seq. No.
Seq. ID
                  LIB25-023-Q1-E1-B1
Method
                  BLASTN
NCBI GI
                  g4220468
BLAST score
                  154
                  3.0e-81
E value
                  286
Match length
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T8011 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140484
Seq. ID
                  LIB25-023-Q1-E1-B2
Method
                  BLASTX
NCBI GI
                  q2462833
BLAST score
                  530
E value
                  2.0e-54
Match length
                  108
                  99
% identity
NCBI Description
                  (AF000657) highly similar to froha and frohb, potential
```

frohc [Arabidopsis thaliana]

```
Seq. No.
                  140485
Seq. ID
                  LIB25-023-Q1-E1-B6
Method
                  BLASTX
NCBI GI
                  g2244750
BLAST score
                  581
E value
                  3.0e-60
Match length
                  124
% identity
                  89
NCBI Description
                   (Z97335) adenosylhomocysteinase [Arabidopsis thaliana]
                  >gi 3088579 (AF059581) S-adenosyl-L-homocysteine hydrolase
                   [Arabidopsis thaliana]
                  140486
Seq. No.
Seq. ID
                  LIB25-023-Q1-E1-D2
Method
                  BLASTX
NCBI GI
                  q2262115
BLAST score
                  521
                  2.0e-53
E value
Match length
                  97
% identity
                   (AC002343) cellulose synthase isolog [Arabidopsis thaliana]
NCBI Description
                  140487
Seq. No.
                  LIB25-023-Q1-E1-D9
Seq. ID
Method
                  BLASTN
                  q4454004
NCBI GI
BLAST score
                  149
                  4.0e-78
E value
                  415
Match length
% identity
                  97
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F24A6
NCBI Description
                   (ESSAII project)
Seq. No.
                  140488
Seq. ID
                  LIB25-023-Q1-E1-E11
Method
                  BLASTN
NCBI GI
                  g2924733
                  22
BLAST score
                  2.0e-02
E value
                  336
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUF9, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140489
Seq. ID
                  LIB25-023-Q1-E1-E4
Method
                  BLASTX
NCBI GI
                  q4309698
                  601
BLAST score
                  1.0e-62
E value
Match length
                  115
% identity
                   (AC006266) putative glucosyltransferase [Arabidopsis
NCBI Description
                  thaliana]
                  140490
Seq. No.
                                                                     r, ·
```

```
LIB25-023-Q1-E1-F4
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4455348
                   152
BLAST score
E value
                   3.0e-80
                   230
Match length
% identity
                   97
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T13J8
NCBI Description
                   (ESSAII project)
                   140491
Seq. No.
Seq. ID
                   LIB25-023-Q1-E1-F6
Method
                   BLASTX
NCBI GI
                   g2191175
BLAST score
                   538
                   3.0e-55
E value
                   101
Match length
                   100
% identity
                   (AF007270) A IG002P16.24 gene product [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   140492
                   LIB25-023-Q1-E1-H5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g120675
BLAST score
                   518
E value
                   9.0e-53
Match length
                   134
% identity
                   76
                   GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, CYTOSOLIC
NCBI Description
                   >gi_66011_pir__DEIS3C glyceraldehyde-3-phosphate
dehydrogenase (EC 1.2.1.12), cytosolic - white mustard
                   >qi 21143 emb CAA27844 (X04301) GAPDH (aa 1-338) [Sinapis
                   alba]
Seq. No.
                   140493
Seq. ID
                   LIB25-024-Q1-E1-B1
Method
                   BLASTX
NCBI GI
                   q2129538
BLAST score
                   375
E value
                   3.0e-36
                   76
Match length
% identity
                   100
                   AT103 protein - Arabidopsis thaliana >gi_1033195 (U38232)
NCBI Description
                   AT103 [Arabidopsis thaliana]
Seq. No.
                   140494
                   LIB25-024-Q1-E1-B2
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4455290
                   198
BLAST score
E value
                   1.0e-107
                   206
Match length
                   99
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F18A5
NCBI Description
                   (ESSAII project)
```

```
Seq. No.
                   140495
Seq. ID
                   LIB25-024-Q1-E1-C3
Method
                   BLASTN
NCBI GI
                   g4337186
BLAST score
                   24
                   1.0e-03
E value
Match length
                   348
% identity
                   99
                   Arabidopsis thaliana chromosome II BAC T28I24 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140496
Seq. No.
Seq. ID
                   LIB25-024-Q1-E1-D10
Method
                   BLASTN
NCBI GI
                   q3176694
BLAST score
                   112
E value
                   1.0e-56
Match length
                   112
% identity
                   100
NCBI Description
                   Arabidopsis thaliana chromosome I BAC T14N5 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140497
Seq. ID
                   LIB25-024-Q1-E1-F3
Method
                   BLASTN
NCBI GI
                   q1199466
BLAST score
                   44
E value
                   7.0e-16
Match length
                   48
% identity
                   98
NCBI Description
                  Arabidopsis thaliana CER1 mRNA for possible aldehyde
                   decarbonylase, complete cds >gi_3717039_emb_A63188.1_A63188
                   Sequence 2 from Patent EP0776973
Seq. No.
                   140498
Seq. ID
                   LIB25-024-Q1-E1-G12
Method
                  BLASTN
NCBI GI
                   q1181530
BLAST score
                   145
E value
                   4.0e-76
Match length
                   193
% identity
                   94
NCBI Description
                  Arabidopsis thaliana thionin (Thi2.1) mRNA, complete cds
Seq. No.
                   140499
Seq. ID
                  LIB25-025-Q1-E1-A12
Method
                  BLASTX
NCBI GI
                   g4587550
BLAST score
                   648
E value
                   5.0e-68
Match length
                   138
% identity
NCBI Description
                   (AC006577) EST gb R64848 comes from this gene. [Arabidopsis
                  thaliana]
Seq. No.
                  140500
Seq. ID
                  LIB25-025-Q1-E1-A4
```

BLAST score

```
Method
                  BLASTX
NCBI GI
                  g3582328
BLAST score
                  163
                  3.0e-11
E value
                  112
Match length
                  20
% identity
                  (AC005496) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  140501
Seq. No.
Seq. ID
                  LIB25-026-Q1-E1-B8
Method
                  BLASTN
NCBI GI
                  g2564047
                  85
BLAST score
                  6.0e-40
E value
                  442
Match length
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MJB21, complete sequence [Arabidopsis thaliana]
                  140502
Seq. No.
Seq. ID
                  LIB25-026-Q1-E1-C3
Method
                  BLASTN
NCBI GI
                  g2351065
BLAST score
                  194
E value
                  1.0e-105
                  358
Match length
                  94
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MHF15, complete sequence [Arabidopsis thaliana]
                  140503
Seq. No.
                  LIB25-026-Q1-E1-F1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2244901
BLAST score
                  301
E value
                  1.0e-169
                  389
Match length
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                  fragment No
                  140504
Seq. No.
Seq. ID
                  LIB25-026-Q1-E1-F7
Method
                  BLASTN
NCBI GI
                  g3869071
BLAST score
                  211
E value
                  1.0e-115
Match length
                  279
                  93
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MIL23, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140505
Seq. ID
                  LIB25-026-Q1-E1-G10
Method
                  BLASTX
NCBI GI
                  g4115918
```

```
E value
                  8.0e-16
Match length
                   63
                   77
% identity
NCBI Description
                   (AF118222) similar to nascent polypeptide associated
                  complex alpha chain [Arabidopsis thaliana]
Seq. No.
                   140506
                  LIB25-026-Q1-E1-H6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2760330
BLAST score
                   354
E value
                   1.0e-33
                  83
Match length
% identity
                   80
                   (AC002130) F1N21.15 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140507
Seq. ID
                  LIB25-026-Q1-E1-H9
Method
                  BLASTN
NCBI GI -
                  q3402695
BLAST score
                   314
E value
                   1.0e-176
Match length
                   334
% identity
                   99
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T3K9 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB25-027-Q1-E1-A1
Method
                  BLASTX
NCBI GI
                   q1345595
BLAST score
                   316
E value
                   9.0e-30
Match length
                   65
% identity
                   100
NCBI Description
                  14-3-3-LIKE PROTEIN GF14 LAMBDA (14-3-3-LIKE PROTEIN AFT1)
                  >gi_1084332_pir__S53727 14-3-3-like protein (ATF1) -
                  Arabidopsis thaliana >gi_953221 (U02565) 14-3-3-like
                  protein 1 [Arabidopsis thaliana] >gi 1549404 (U68545) GF14
                  lambda [Arabidopsis thaliana]
Seq. No.
                  140509
Seq. ID
                  LIB25-027-Q1-E1-A8
Method
                  BLASTX
NCBI GI
                  g1684913
BLAST score
                  133
E value
                  8.0e-08
Match length
                  101
% identity
NCBI Description
                   (U77888) receptor-like protein kinase [Ipomoea nil]
                  140510
Seq. No.
Seq. ID
                  LIB25-027-Q1-E1-C3
Method
                  BLASTX
NCBI GI
                  q4249662
BLAST score -
                  254
E value
                  5.0e-22
```

Match length

```
52
Match length
                  100
% identity
                   (AF089810) Altered Response to Gravity [Arabidopsis
NCBI Description
                  thaliana]
                  140511
Seq. No.
Seq. ID
                  LIB25-027-Q1-E1-E4
Method
                  BLASTN
NCBI GI
                  g4558521
BLAST score
                  158
                  7.0e-84
E value
Match length
                  182
                  97
% identity
NCBI Description
                  Genomic sequence for Arabidopsis thaliana BAC T10024,
                  complete sequence
Seq. No.
                  140512
Seq. ID
                  LIB25-027-Q1-E1-E8
Method
                  BLASTX
NCBI GI
                  q1076291
BLAST score
                  202
E value
                  2.0e-54
Match length
                  110
% identity
                  100
                  amino acid transporter AAT1 - Arabidopsis thaliana
NCBI Description
                  >gi_2911069_emb_CAA17531.1_ (AL021960) amino acid transport
                  protein AATI [Arabidopsis thaliana]
Seq. No.
                  140513
Seq. ID
                  LIB25-027-Q1-E1-F2
Method
                  BLASTX
NCBI GI
                  q3738288
BLAST score
                  200
E value
                  4.0e-16
Match length
                  61
% identity
NCBI Description
                   (AC005309) auxin-responsive GH3-like protein [Arabidopsis
                  thaliana]
                  140514
Seq. No.
Seq. ID
                  LIB25-027-Q1-E1-F3
Method
                  BLASTN
NCBI GI
                  g4584519
BLAST score
                  292
E value
                  1.0e-163
Match length
                  312
% identity
                  98
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F11C18
                   (ESSA project)
Seq. No.
                  140515
Seq. ID
                  LIB25-027-Q1-E1-G2
Method
                  BLASTX
NCBI GI
                  g4539465
BLAST score
                  436
E value
                  1.0e-43
```

```
% identity
                   (AL049500) putative protein [Arabidopsis thaliana]
NCBI Description
                  140516
Seq. No.
                  LIB25-027-Q1-E1-H2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4567300
BLAST score
                  275
E value
                   1.0e-153
Match length
                  291
% identity
                   99
                  Arabidopsis thaliana chromosome II P1 MHK10 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  140517
Seq. ID
                  LIB25-028-Q1-E1-A8
Method
                  BLASTN
NCBI GI
                  q313837
BLAST score
                  149
E value
                  2.0e-78
                  189
Match length
                   95
% identity
                  A.thaliana gene for hemC
NCBI Description
                  140518
Seq. No.
Seq. ID
                  LIB25-028-Q1-E1-C7
Method
                  BLASTN
NCBI GI
                  a4757413
BLAST score
                  231
                   1.0e-127
E value
Match length
                   312
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MXO21, complete sequence
Seq. No.
                  140519
Seq. ID
                  LIB25-028-Q1-E1-H4
Method
                  BLASTX
                  g4510395
NCBI GI
BLAST score
                  573
E value
                  2.0e-59
Match length
                  107
                  100
% identity
                   (AC006587) putative beta-galactosidase precursor
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  140520
Seq. ID
                  LIB25-028-Q1-E1-H7
Method
                  BLASTN
NCBI GI
                  g3522932
BLAST score
                  168
                  1.0e-89
E value
Match length
                  260
% identity
                  Arabidopsis thaliana chromosome II BAC F14M4 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
```

Seq. ID Method

```
140521
Seq. No.
                  LIB25-029-Q1-E1-A11
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4510323
                  251
BLAST score
E value
                  1.0e-139
                  303
Match length
% identity
                  Arabidopsis thaliana BAC T7B11 from chromosome IV near 10
NCBI Description
                  cM, complete sequence
Seq. No.
                  140522
                  LIB25-029-Q1-E1-B9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2245004
BLAST score
                  391
                  7.0e-38
E value
                  143
Match length
                  55
% identity
                  (Z97341) similarity to membrane transport protein
NCBI Description
                   [Arabidopsis thaliana]
                  140523
Seq. No.
                  LIB25-029-Q1-E1-D11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4263519
BLAST score
                  420
                  2.0e-41
E value
                  86
Match length
                  94
% identity
                   (AC004044) small nuclear riboprotein Sm-D1 [Arabidopsis
NCBI Description
                  thaliana]
                  140524
Seq. No.
                  LIB25-029-Q1-E1-D5
Seq. ID
Method
                  BLASTX
                  g4263791
NCBI GI
BLAST score
                  709
                  3.0e-75
E value
                  137
Match length
                  98
% identity
                   (AC006068) putative receptor protein kinase [Arabidopsis
NCBI Description
                  thaliana]
                  140525
Seq. No.
                  LIB25-029-Q1-E1-D9
Seq. ID
Method
                  BLASTX
                  g4567305
NCBI GI
                  704
BLAST score
                  1.0e-74
E value
Match length
                  128
% identity
                  (AC005956) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  140526
Seq. No.
```

17072

LIB25-029-Q1-E1-F1

BLASTN

NCBI GI 🚃 🥊

g3335366

```
q4544381
NCBI GI
BLAST score
                  270
E value
                  1.0e-150
                                    120
Match length
                  382
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F16F14 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  140527
Seq. ID
                  LIB25-029-Q1-E1-G12
Method
                  BLASTN
NCBI GI
                  q4589432
BLAST score
                  225
E value
                  1.0e-123
Match length
                  343
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MMJ24, complete sequence
Seq. No.
                  140528
Seq. ID
                  LIB25-029-Q1-E1-G5
Method
                  BLASTN
NCBI GI
                  q3831448
BLAST score
                  178
E value
                  1.0e-95
Match length
                  245
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC T32F6 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140529
Seq. ID
                  LIB25-029-Q1-E1-H7
Method
                  BLASTN
NCBI GI
                  q3241924
BLAST score
                  265
E value
                  1.0e-147
Match length
                  319
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MNC6, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140530
Seq. ID
                  LIB25-029-Q1-E1-H9
Method
                  BLASTX
NCBI GI
                  g3850571 ·
BLAST score
                  430
E value
                  2.0e-42
Match length
                  83
% identity
                  100
                  (ACO05278) Similar to gb_U85207 snRNP core Sm protein
NCBI Description
                  homolog Sm-X5 from Mus musculus. EST gb AA612141 comes
                  from this gene. [Arabidopsis thaliana]
Seq. No.
                  140531
Seq. ID
                  LIB25-030-Q1-E1-D4
Method
                  BLASTX
```

BLAST score

E value

289

4.0e-26



```
209
BLAST score
                  8.0e-17
E value
                  101
Match length
                  40
% identity
                   (AC003028) unknown protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140532
Seq. ID
                  LIB25-030-Q1-E1-E2
Method
                  BLASTN
NCBI GI
                  g4432811
BLAST score
                  43
                  6.0e-15
E value
                  79
Match length
                  89
% identity
                  Arabidopsis thaliana chromosome II BAC F16D14 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  140533
Seq. No.
Seq. ID
                  LIB25-Q31-Q1-E1-F6
                  BLASTN
Method
NCBI GI
                  q4006885
BLAST score
                  62
                  9.0e-27
E value
                  118
Match length
% identity
                  88
                  Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
NCBI Description
                  fragment No
                  140534
Seq. No.
Seq. ID
                  LIB25-032-Q1-E1-C12
                  BLASTN
Method
NCBI GI
                  g414339
BLAST score
                  37
E value -
                   6.0e-12
Match length
                  85
% identity
                  86
                  A.thaliana rd19A gene for thiol protease, exon 1, exon 2
NCBI Description
                  and exon
                  140535
Seq. No.
Seq. ID
                  LIB25-032-Q1-E1-F4
Method -
                  BLASTX
NCBI GI
                  g4633131
BLAST score
                  485
E value
                  4.0e-49
Match length
                  97
% identity
                  100
                   (AF110407) ATP sulfurylase precursor [Arabidopsis thaliana]
NCBI Description
                  >gi_4803653_emb_CAB42640.1_ (AJ012586) sulfate
                  adenylyltransferase [Arabidopsis thaliana]
Seq. No.
                  140536
Seq. ID
                  LIB25-032-Q1-E1-F6
                  BLASTX
Method
NCBI GI
                  g2811292
```

Seq. No.

140541

```
Match length
                    92
  % identity
                    100
                    (AF043343) putative vegetative storage protein [Arabidopsis
  NCBI Description
  Seq. No.
                    140537
  Seq. ID
                    LIB25-032-Q1-E1-H6
  Method
                    BLASTX
 NCBI GI
                    g4455243
                                                                         . 44.
 BLAST score
                    523
 E value
                    2.0e-53
 Match length
                    117
 % identity
 NCBI Description
                    (AL035523) alpha-amylase-like protein [Arabidopsis
                    thaliana]
 Seq. No.
                    140538
 Seq. ID
                    LIB25-032-Q1-E1-H7
 Method
                    BLASTX
 NCBI GI
                    q461498
 BLAST score
                    507
 E value
                    1.0e-51
 Match length
                    112
 % identity
                    86
 NCBI Description
                    ALANINE AMINOTRANSFERASE 2 (GPT) (GLUTAMIC--PYRUVIC
                    TRANSAMINASE 2) (GLUTAMIC--ALANINE TRANSAMINASE 2)
                    (ALAAT-2) >gi_320619_pir__S28429 alanine transaminase (EC
                    2.6.1.2) - proso millet >gi_296204_emb_CAA49199_ (X69421)
                    alanine aminotransferase [Panicum miliaceum]
 Seq. No.
                    140539
 Seq. ID
                    LIB25-033-01-E1-A2
 Method
                    BLASTX
 NCBI GI
                    q4206194
BLAST score
                    631
 E value
                    4.0e-66
 Match length
                    122
 % identity
                    100
 NCBI Description
                    (AF071527) GH3-like protein [Arabidopsis thaliana]
                   >gi_4262168_gb_AAD14468_ (AC005275) putative GH3-like
                   protein [Arabidopsis thaliana]
 Seq. No.
                   140540
 Seq. ID
                   LIB25-033-01-E1-B5
 Method
                   BLASTX
 NCBI GI
                   q400515
 BLAST score
                   164
 E value
                   1.0e-11
 Match length
                   57
 % identity
 NCBI Description
                   NADH-UBIQUINONE OXIDOREDUCTASE B8 SUBUNIT (COMPLEX I-B8)
                   (CI-B8) >gi_346540_pir__S28249 NADH dehydrogenase
                   (ubiquinone) (EC 1.6.5.3) chain CI-B8 - bovine
                   >gi_246_emb_CAA44904_ (X63219) NADH dehydrogenase [Bos
                   taurus]
```

```
LIB25-033-Q1-E1-B8
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2618683
BLAST score
                  184
                  2.0e-99
E value
Match length
                  184
% identity
                   100
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T32G6 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
                   140542
Seq. No.
Seq. ID
                  LIB25-033-Q1-E1-B9
Method
                  BLASTX
NCBI GI
                   q3135254
                   285
BLAST score
E value
                   5.0e-26
                   62
Match length
                   87
% identity
NCBI Description
                   (AC003058) hypothetical protein [Arabidopsis thaliana]
Seq. No.
                   140543
Seq. ID
                  LIB25-033-Q1-E1-E7
Method
                  BLASTN
NCBI GI
                   g2832689
BLAST score
                  158
E value
                   6.0e - 84
Match length
                  158
                   100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone
NCBI Description
                   (ESSAII project)
Seq. No.
                   140544
Seq. ID
                  LIB25-033-Q1-E1-G4
Method
                  BLASTN
NCBI GI
                   g3080430
BLAST score
                   223
E value
                   1.0e-122
Match length
                   454
                   100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T19P19
NCBI Description
                   (ESSAII project)
                   140545
Seq. No.
Seq. ID
                  LIB25-033-Q1-E1-G7
Method
                  BLASTX
NCBI GI
                   g2281631
BLAST score
                   446
                   2.0e-44
E value
Match length
                  86
% identity
                   (AF003096) AP2 domain containing protein RAP2.3
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   140546
                  LIB25-033-Q1-E1-G8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4519193
```

```
BLAST score
                   159
                   3.0e-84
E value
Match length
                   304
                   100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MDC11, complete sequence
                   140547
Seq. No.
                  LIB25-033-Q1-E1-H4
Seq. ID
                   BLASTN
Method
NCBI GI
                   g4249393
BLAST score
                   335
E value
                   0.0e+00
                   335
Match length
                   100
% identity
                   Arabidopsis thaliana chromosome II BAC T9J23 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140548
Seq. ID
                  LIB25-034-Q1-E1-D3
Method
                   BLASTN
NCBI GI
                   g2760168
BLAST score
                   155
                   7.0e-82
E value
Match length
                   313
                   99
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MEE6, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140549
Seq. ID
                  LIB25-034-Q1-E1-H6
Method
                   BLASTX
NCBI GI
                   g509810
BLAST score
                   294
E value
                   1.0e-26
Match length
                   59
                   100
% identity
NCBI Description (L08468) envelope Ca2+-ATPase [Arabidopsis thaliana]
                   140550
Seq. No.
                  LIB25-035-Q1-E1-B3
Seq. ID
Method
                  BLASTN
NCBI GI
                   g1946354
BLAST score
                   204
E value
                   1.0e-111
Match length
                   299
                   97
% identity
                  Arabidopsis thaliana chromosome II BAC T06B20 genomic
NCBI Description
                   sequence, complete sequence
                  140551
Seq. No.
                  LIB25-035-Q1-E1-C6
Seq. ID
Method
                  BLASTX
                  g3643192
NCBI GI
BLAST score
                   478
                   4.0e-48
E value
```

135 .

Match length

```
% identity
NCBI Description
                  (AF087435) unknown [Arabidopsis thaliana]
                  140552
Seq. No.
                  LIB25-035-Q1-E1-E4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4587527
BLAST score
                  447
E value
                  1.0e-44
Match length
                  103
                  85
% identity
                  (AC007060) Strong similarity to F19I3.2 gi 3033375 putative
NCBI Description
                  berberine bridge enzyme from Arabidopsis thaliana BAC
                  gb AC004238
                  140553
Seq. No.
Seq. ID
                  LIB25-035-Q1-E1-F12
Method
                  BLASTN
NCBI GI
                  g1184276
BLAST score
                  45
                  4.0e-16
E value
Match length
                  279
                  85
% identity
                  Brassica napus (clone Sta 39-4) arabinogalactan protein
NCBI Description
                  mRNA, complete cds
                  140554
Seq. No.
                  LIB25-035-Q1-E1-F7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g450879
                  102
BLAST score
                  2.0e-50
E value
Match length
                  146
                  75
% identity
NCBI Description A.thaliana hsc70-1 gene
                  140555
Seq. No.
                  LIB25-035-Q1-E1-G11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3046847
BLAST score
                  66
                  5.0e-29
E value
                  134
Match length
                  87
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome5, TAC clone:
                  K11J9, complete sequence [Arabidopsis thaliana]
                  140556
Seq. No.
                  LIB25-035-Q1-E1-H4
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4159710
                  194
BLAST score
                  1.0e-105
E value
                  258
Match length
                  48
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
```

MSD23, complete sequence

A. A. ...

```
Seq. No.
                  140557
Seq. ID
                  LIB25-036-Q1-E1-A3
Method
                  BLASTN
NCBI GI
                  g2618599
BLAST score
                  262
E value
                   1.0e-145
Match length
                   456
% identity
                   100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MBD2, complete sequence [Arabidopsis thaliana]
                   140558
Seq. No.
Seq. ID
                  LIB25-036-Q1-E1-B10
Method
                  BLASTX
NCBI GI
                   q3036805
BLAST score
                   290
                   1.0e-26
E value
                   57
Match length
% identity
                   95
                   (AL022373) thaumatin-like protein [Arabidopsis thaliana]
NCBI Description
                   140559
Seq. No.
Seq. ID
                  LIB25-036-Q1-E1-B11
Method
                  BLASTX
NCBI GI
                   q3249083
                   174
BLAST score
                   2.0e-12
E value
                   73
Match length
% identity
                   45
NCBI Description
                   (AC004473) Contains similarity to heat shock transcription
                   factor homolog gb_2244754 from A. thaliana chromosome 4
                   contig gb_Z97335. [Arabidopsis thaliana]
Seq. No.
                   140560
Seq. ID
                  ·LIB25-036-Q1-E1-B3
Method
                   BLASTX
NCBI GI
                   g3914117
BLAST score
                   631
E value
                   5.0e-66
                   147
Match length
                   84
% identity
                   NUCLEOSIDE DIPHOSPHATE KINASE II PRECURSOR (NDK II) (NDP
NCBI Description
                   KINASE II) >gi_3093480 (AF017640) nucleoside diphosphate
                   kinase type 2 [Arabidopsis thaliana]
Seq. No.
                   140561
Seq. ID
                  LIB25-036-Q1-E1-B4
Method
                   BLASTX
                   g1617013
NCBI GI
BLAST score
                   284
E value
                   2.0e-25
Match length
                   56
% identity
                   (Y07745) histone H2B like protein [Arabidopsis thaliana]
NCBI Description
                   140562
Seq. No.
```

```
LIB25-036-Q1-E1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4469024
                                                            . Y.
                  479
BLAST score
                  1.0e-48
E value
Match length
                  93
% identity
                  (AL035602) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140563
                  LIB25-036-Q1-E1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4539383
BLAST score
                  684
                  3.0e-72
E value
Match length
                  141
                  92
% identity
                   (AL035526) putative protein (fragment) [Arabidopsis
NCBI Description
                  thaliana]
                  140564
Seq. No.
                  LIB25-036-Q1-E1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4538961
BLAST score
                  620
E value
                  8.0e-65
Match length
                  127
                  100
% identity
                   (AL049488) isoleucine-tRNA ligase-like protein [Arabidopsis
NCBI Description
                  thaliana]
                  140565
Seq. No.
Seq. ID
                  LIB25-036-Q1-E1-C6
Method
                  BLASTX
NCBI GI
                  g3386606
BLAST score
                  163
                  4.0e-11
E value
                  46
Match length
                  70
% identity
                  (AC004665) putative beta-amylase [Arabidopsis thaliana]
NCBI Description
                  140566
Seq. No.
                  LIB25-036-Q1-E1-E3
Seq. ID
                  BLASTN
Method
                  ~g3158375
NCBI GI
BLAST score
                  132
                  3.0e-68
E value
                  132
Match length
                  100
% identity
NCBI Description Arabidopsis thaliana SEN5 mRNA, partial cds
Seq. No.
                  140567
                  LIB25-036-Q1-E1-E7
Seq. ID
                  BLASTN
Method
                  g4432829
NCBI GI
BLAST score
                  444
                  0.0e+00
E value
```

NCBI Description

```
Match length
                   448
% identity
                   100
                   Arabidopsis thaliana chromosome II BAC T1B3 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140568
Seq. No.
Seq. ID
                   LIB25-036-Q1-E1-E8
Method
                   BLASTX
NCBI GI
                   g2851455
BLAST score
                   356
E value
                   9.0e-34
Match length
                   84
% identity
                   86
NCBI Description
                   DYNAMIN-LIKE PROTEIN >qi 2267213 (L36939) dynamin-like GTP
                   binding protein [Arabidopsis thaliana]
Seq. No.
                   140569
                   LIB25-036-Q1-E1-F5
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3659491
BLAST score
                   138
E value
                   5.0e-72
Match length
                   138
% identity
                   50
NCBI Description
                   Sequence of BAC T22H22 from Arabidopsis thaliana chromosome
                   1, complete sequence [Arabidopsis thaliana]
                   140570
Seq. No.
Seq. ID
                   LIB25-036-Q1-E1-F8
Method
                   BLASTX
NCBI GI
                   g1854445
BLAST score
                   544
E value
                   8.0e-56
Match length
                   131
                   77
% identity
NCBI Description
                   (D83971) CPRD14 protein [Vigna unguiculata]
                   140571
Seq. No.
Seq. ID
                   LIB25-036-Q1-E1-H8
Method
                   BLASTX
NCBI GI
                   g1350680
BLAST score
                   529
E value
                   4.0e-54
Match length
                   128
                   98
% identity
NCBI Description
                   60S RIBOSOMAL PROTEIN L1
Seq. No.
                   140572
Seq. ID
                   LIB25-037-Q1-E1-A3
Method
                   BLASTX
NCBI GI
                   q2905643
BLAST score
                   325
E value
                   4.0e-30
Match length
                   125
% identity
                   53
```

(AF045244) ribitol kinase [Klebsiella pneumoniae]

% identity

-100

```
. 140573
Seq. No.
Seq. ID
                   LIB25-037-Q1-E1-A4
Method
                   BLASTX
NCBI GI
                   g1170660
BLAST score
                   623
E value
                   4.0e-65
Match length
                   123
% identity
                   100
                   MEVALONATE KINASE (MK) >gi 541880 pir__S42088 mevalonate
NCBI Description
                   kinase (EC 2.7.1.36) - Arabidopsis thaliana
                   >gi 456614_emb_CAA54820_ (X77793) mevalonate kinase
                   [Arabidopsis thaliana]
Seq. No.
                   140574
                   LIB25-037-Q1-E1-A7
Seq. ID
Method
                   BLASTN
NCBI GI
                   q2696018
BLAST score
                   310
E value
                   1.0e-174
Match length
                   442
                   100
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MXC9, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140575
Seq. ID
                   LIB25-037-Q1-E1-B10
Method
                   BLASTX
NCBI GI
                   q1168530
BLAST score
                   489
E value
                   2.0e-49
                   96
Match length
                   99
% identity
                   SERINE/THREONINE-PROTEIN KINASE ASK2 >gi_99748 pir S24586
NCBI Description
                   probable serine/threonine-specific protein kinase (EC
                   2.7.1.-) (clone ASK2) - Arabidopsis thaliana >gi_16443_emb_CAA78106_ (Z12120) protein kinase
                   [Arabidopsis thaliana]
Seq. No.
                   140576
Seq. ID
                   LIB25-037-Q1-E1-B8
Method
                   BLASTX
NCBI GI
                   g1181531
BLAST score
                   606
E value
                   4.0e-63
                   124
Match length
% identity
                   91
NCBI Description
                   (L41244) thionin [Arabidopsis thaliana]
                   >gi 1586833 prf 2204399A thionin [Arabidopsis thaliana]
Seq. No.
                   LIB25-037-Q1-E1-C11
Seq. ID
Method
                   BLASTN
NCBI GI
                   g1244741
BLAST score
                   256
E value
                   1.0e-142
                   256
Match length
```

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```
NCBI Description Arabidopsis thaliana nuclear ribosomal ITS-1, 5.8S
                  ribosomal RNA, and ITS-2. >gi 1245679 gb U52185 ASU52185
                  Arabidopsis suecica nuclear ribosomal ITS-1, 5.8S ribosomal
                  RNA, and ITS-2
                  140578
Seq. No.
Seq. ID
                  LIB25-037-Q1-E1-D4
Method
                  BLASTX
NCBI GI
                  g3250677
BLAST score
                  735
                  3.0e-78
E value
                  143
Match length
                  100
% identity
                   (AL024486) putative Fe(II) transport protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  140579
                  LIB25-037-Q1-E1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3063453
BLAST score
                  373
E value ·
                  9.0e-36
Match length
                  139
% identity
NCBI Description
                  (AC003981) F22013.15 [Arabidopsis thaliana]
                  140580
Seq. No.
Seq. ID
                  LIB25-037-Q1-E1-E2
Method
                  BLASTN
NCBI GI
                  g4159708
BLAST score
                  165
E value
                   1.0e-87
Match length
                   425
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MKP6, complete sequence
Seq. No.
                  140581
                  LIB25-037-Q1-E1-E4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3914024
BLAST score
                  209
                  1.0e-16
E value
                  59
Match length
                   63
% identity
                   (R)-MANDELONITRILE LYASE ISOFORM 2 PRECURSOR
NCBI Description
                   (HYDROXYNITRILE LYASE 2) ((R)-OXYNITRILASE 2) >gi_2773274
                   (AF040078) (R)-(+)-mandelonitrile lyase isoform M\overline{D}L2
                  precursor [Prunus serotina] >gi 2773276 (AF040079)
                   (R)-(+)-mandelonitrile lyase isoform MDL2 precursor [Prunus
                  serotina]
                  140582
Seq. No.
Seq. ID
                  LIB25-037-Q1-E1-E7
Method
                  BLASTX
NCBI GI
                  g4263704
BLAST score
                  238
```

: :

```
6.0e-20
E value
Match length
                   80
                   50
% identity
NCBI Description
                   (AC006223) putative sugar starvation-induced protein
                   [Arabidopsis thaliana]
                   140583
Seq. No.
Seq. ID
                  LIB25-037-Q1-E1-G1
Method
                  BLASTN
NCBI GI
                   g4263813
BLAST score
                   368
                  0.0e+00
E value
Match length
                   425
% identity
                   97
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T13P21 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB25-037-Q1-E1-G4
Method
                  BLASTX
NCBI GI
                  q4220474
BLAST score
                  509
E value
                   9.0e-52
Match length
                  144
% identity
NCBI Description
                   (AC006069) putative myosin heavy chain [Arabidopsis
                  thaliana]
Seq. No.
                  140585
Seq. ID
                  LIB25-037-Q1-E1-H1
Method
                  BLASTX
NCBI GI
                  q4587542
BLAST score
                  562
E value
                  6.0e-58
Match length
                  146
% identity
NCBI Description
                   (AC006577) Belongs to the PF_00657 Lipase/Acylhydrolase
                  with GDSL-motif family. ESTs gb T45815, gb T45130 and
                  gb Z38046 come from this gene. [Arabidopsis thaliana]
Seq. No.
                  140586
Seq. ID
                  LIB25-037-Q1-E1-H2
Method
                  BLASTN
NCBI GI
                  q3402695
BLAST score
                  60
E value
                  5.0e-25
Match length
                  124
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T3K9 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
                  140587
Seq. No.
Seq. ID
                  LIB25-037-01-E1-H6
Method
                  BLASTN
NCBI GI
                  g2351070
BLAST score
                  192
E value
                  1.0e-104
```

% identity



```
Match length
                   358
                   100
 % identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MTH12, complete sequence [Arabidopsis thaliana]
                   140588
Seq. No.
Seq. ID
                   LIB25-038-Q1-E1-A4
Method
                   BLASTX
NCBI GI
                   g2129538
                   357
BLAST score
E value
                   5.0e-34
                   69
Match length
                   100
 identity
                   AT103 protein - Arabidopsis thaliana >gi 1033195 (U38232)
NCBI Description
                   AT103 [Arabidopsis thaliana]
                   140589
Seq. No.
Seq. ID
                   LIB25-038-Q1-E1-A9
Method
                   BLASTN
NCBI GI
                   g4510360
BLAST score
                   348
E value
                   0.0e+00
                   407
Match length
                   97
% identity
NCBI Description
                   Arabidopsis thaliana chromosome II BAC F11F19 genomic
                   sequence, complete sequence
Seq. No.
                   140590
                   LIB25-038-Q1-E1-B10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2465923
BLAST score
                   192
                   1.0e-14
E value
Match length
                   143
% identity
                   38
NCBI Description
                   (AF024648) receptor-like serine/threonine kinase
                   [Arabidopsis thaliana]
Seq. No.
                   140591
                   LIB25-038-Q1-E1-F10
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2264314
BLAST score
                   345
                   0.0e+00
E value
                   349
Match length
% identity
                   100
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MQK4, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140592
                   LIB25-038-Q1-E1-F11
Seq. ID
Method
                   BLASTX
NCBI GI
                   q585084
                   290
BLAST score
E value
                   4.0e-26
Match length
                   70
```

NCBI Description

```
NCBI Description ELONGATION FACTOR G, MITOCHONDRIAL PRECURSOR (MEF-G)
                  >gi 543383_pir__S40780 translation elongation factor G,
                  mitochondrial - rat >gi 310102 (L14684) elongation factor G
                  [Rattus norvegicus]
                  140593
Seq. No.
Seq. ID
                  LIB25-038-Q1-E1-F5
Method
                  BLASTX
                  g3242710
NCBI GI
                  460
BLAST score
                  5.0e-46
E value
Match length
                  94
% identity
                   (AC003040) hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140594
                  LIB25-038-Q1-E1-F8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2160132
                  214
BLAST score
                  1.0e-117
E value
Match length
                  214
                  100
% identity
                  Sequence of BAC F19K23 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
                  140595
Seq. No.
                  LIB25-038-Q1-E1-H1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2739359
                  92
BLAST score
                  2.0e-44
E value
                  191
Match length
% identity
                  88
                  Arabidopsis thaliana chromosome II BAC T9J22 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140596
                  LIB25-038-Q1-E1-H11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3059018
BLAST score
                  86
E value
                  3.0e-41
Match length
                  86
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F1C12
NCBI Description
                   (ESSAII project)
Seq. No.
                  140597
                  LIB25-038-Q1-E1-H6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3608155
BLAST score
                  295
                  5.0e-27
E value
Match length
                  61
                  92
% identity
```

(ACQ05314) putative RNA helicase [Arabidopsis thaliana]

```
Seq. No.
                   140598
 Seq. ID
                   LIB25-038-Q1-E1-H7
 Method
                   BLASTN
 NCBI GI
                   g4662609
 BLAST score
                   179
 E value
                   3.0e-96
Match length
                   274
 % identity
                   100
 NCBI Description
                   Genomic sequence for Arabidopsis thaliana BAC F10A5,
                   complete sequence
Seq. No.
                   140599
Seq. ID
                   LIB25-038-Q1-E1-H9
Method
                   BLASTX
NCBI GI
                   g3334124
BLAST score
                   650
E value
                   3.0e-68
Match length
                   134
% identity
                   99
NCBI Description
                   ATP SYNTHASE DELTA CHAIN, MITOCHONDRIAL PRECURSOR
                   (OLIGOMYCIN SENSITIVITY CONFERRAL PROTEIN) (OSCP)
                   >gi_1655482_dbj_BAA13600_ (D88375) delta subunit of
                   mitochondrial F1-ATPase [Arabidopsis thaliana]
Seq. No.
                   140600
Seq. ID
                   LIB25-039-Q1-E1-B1
Method
                   BLASTX
NCBI GI
                   g4490316
BLAST score
                   318
E value
                   2.0e-29
Match length
                   97
% identity
NCBI Description
                   (AL035678) nucellin-like protein [Arabidopsis thaliana]
Seq. No.
                   140601
Seq. ID
                   LIB25-039-Q1-E1-B7
Method
                  BLASTX
NCBI GI
                  g399091
BLAST score
                   415
E value
                   1.0e-40
Match length
                  118
% identity
NCBI Description
                  PYROPHOSPHATE-ENERGIZED VACUOLAR MEMBRANE PROTON PUMP
                   (PYROPHOSPHATE-ENERGIZED INORGANIC PYROPHOSPHATASE)
                   (H+-PPASE) >gi_282878_pir__A38230 inorganic pyrophosphatase
                   (EC 3.6.1.1), H+-translocating pyrophosphate-energized -
                  Arabidopsis thaliana >gi_166634 (M81892) vacuolar
                  H+-phosphatase [Arabidopsis thaliana]
Seq. No.
                  140602
Seq. ID
                  LIB25-039-Q1-E1-C10
Method
                  BLASTN
NCBI GI
                  q2618683
BLAST score
                  151
E value
                  2.0e-79
                  362 💸
```

```
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T32G6 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140603
Seq. ID
                  LIB25-039-Q1-E1-C6
Method
                  BLASTX
NCBI GI
                  g3169172
BLAST score
                  327
E value
                  2.0e-30
Match length
                  76
% identity
                  82
                  (AC004401) putative serine carboxypeptidase I [Arabidopsis
NCBI Description
                  thaliana] >gi 3445214 (AC004786) putative serine
                  carboxypeptidase I [Arabidopsis thaliana]
Seq. No.
                  140604
Seq. ID
                  LIB25-039-Q1-E1-D4
Method
                  BLASTN
NCBI GI
                  g4490291
                  232
BLAST score
E value
                  1.0e-127
Match length
                  392
% identity
                  100
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F17M5
                  (ESSA project)
Seq. No.
                  140605
Seq. ID
                  LIB25-039-Q1-E1-D5
Method
                  BLASTX
NCBI GI
                  g4581141
BLAST score
                  307
E value
                  5.0e-28
                  134
Match length
% identity
                  56
                  (AC006919) unknown protein [Arabidopsis thaliana]
NCBI Description
                  140606
Seq. No.
Seq. ID
                  LIB25-039-Q1-E1-D9
Method
                  BLASTX
NCBI GI
                  g2961373
BLAST score
                  274
E value
                  2.0e-24
Match length
                  112
% identity
                  (AL022141) putative disease resistance protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  140607
Seq. ID
                  LIB25-039-Q1-E1-E11
Method
                  BLASTN
NCBI GI
                  g4220629
                  236
BLAST score
                  1.0e-130
E value
Match length
                  342
% identity
                  96
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
```

NCBI Description

## K24F5, complete sequence [Arabidopsis thaliana] 140608 Seq. No. .. Seq. ID LIB25-039-Q1-E1-E2 Method BLASTX NCBI GI g2829899 BLAST score 741 E value 6.0e-79 Match length 145 100 % identity (AC002311) similar to ripening-induced protein, NCBI Description gp AJ001449 2465015 and major#latex protein, gp X91961 1107495 [Arabidopsis thaliana] 140609 Seq. No. Seq. ID LIB25-039-Q1-E1-G1 Method BLASTN NCBI GI g4567259 BLAST score 119 E value 3.0e-60 420 Match length % identity 99 Arabidopsis thaliana chromosome II BAC F3K23 genomic NCBI Description sequence, complete sequence Seq. No. 140610 Seq. ID LIB25-039-Q1-E1-G5 Method BLASTN NCBI GI g3269280 BLAST score 306 E value 1.0e-172 Match length 403 % identity 100 Arabidopsis thaliana DNA chromosome 4, Pl clone M4I22 NCBI Description (ESSAII project) Seq. No. 140611 LIB25-040-Q1-E1-A5 Seq. ID Method BLASTN NCBI GI q4733952 BLAST score 183 E value 2.0e-98 Match length 368 % identity 100 Arabidopsis thaliana chromosome I BAC F23H11 genomic NCBI Description sequence, complete sequence Seq. No. 140612 LIB25-040-Q1-E1-B11 Seq. ID Method BLASTN NCBI GI g2244901 BLAST score 106 E value 5.0e-53 Match length 142 % identity 94

fragment No

Arabidopsis thaliana DNA chromosome 4, ESSA I contig

```
140613
Seq. No.
Seq. ID
                   LIB25-040-Q1-E1-C6
                   BLASTN
Method
                   g2494106
NCBI GI
                   355
BLAST score
E value
                   0.0e + 00
Match length
                   355
                   100
% identity
                   Arabidopsis thaliana chromosome 1 YAC YUP8H12R sequence,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   140614
Seq. No.
                   LIB25-040-Q1-E1-D10
Seq. ID
                   BLASTX
Method
NCBI GI
                   g3292816
                   202
BLAST score
E value
                   6.0e-16
Match length
                   62
                   77
% identity
                   (AL031018) putative fizzy-related protein [Arabidopsis
NCBI Description
                   thaliana]
                   140615
Seq. No.
Seq. ID
                   LIB25-040-Q1-E1-G12
Method
                   BLASTN
NCBI GI
                   g2262097
BLAST score
                   283
E value
                   1.0e-158
Match length
                   390
% identity
                   100
                   Arabidopsis thaliana chromosome IV BAC T19F6 genomic
NCBI Description
                   sequence, complete sequence
Seq. No.
                   140616
Seq. ID
                   LIB25-040-Q1-E1-G9
Method
                   BLASTN
NCBI GI
                   q3868723
BLAST score
                   112
E value
                   3.0e-56
Match length
                   295
% identity
NCBI Description
                   Arabidopsis thaliana chromosome V map 60.5 cM, complete
                   sequence [Arabidopsis thaliana]
Seq. No.
                   140617
Seq. ID
                   LIB25-041-Q1-E1-A10
Method
                   BLASTX
NCBI GI
                   g4115381
BLAST score
                   633
E value
                   2.0e-66
Match length
                   120
% identity
                   (AC005967) putative limonene cyclase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140618
                   LIB25-Q41-Q1-E1-B10
```

BLAST score

-319

```
Method
                   BLASTX
NCBI GI
                   q4678930
BLAST score
                   381
E value
                   3.0e-37
Match length
                   77
% identity
                   (AL049711) serine-type carboxypeptidase like protein
NCBI Description
                   [Arabidopsis thaliana]
                   140619
Seq. No.
Seq. ID
                  LIB25-041-Q1-E1-B4
Method
                  BLASTX
NCBI GI
                   g4508074
BLAST score
                   386
E value
                   2.0e-37
Match length
                  136
% identity
                   60
                   (AC005882) 45341 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140620
Seq. ID
                  LIB25-041-Q1-E1-B5
Method
                  BLASTN
NCBI GI
                  g1871173
BLAST score
                  219
                   1.0e-120
E value
Match length
                  219
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T06D20 genomic
                  sequence, complete sequence
                  140621
Seq. No.
Seq. ID
                  LIB25-041-Q1-E1-C8
Method
                  BLASTX
NCBI GI
                  g2947059
BLAST score
                  560
E value
                  1.0e-57
Match length
                  114
                  90
% identity
NCBI Description
                   (AC002521) similar to myb transforming protein [Arabidopsis
                  thaliana]
                  140622
Seq. No.
Seq. ID
                  LIB25-041-Q1-E1-D11
Method
                  BLASTN
NCBI GI
                  g4589432
BLAST score
                  386
                  0.0e+00
E value
                  394
Match length
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MMJ24, complete sequence
Seq. No.
                  140623
Seq. ID
                  LIB25-041-Q1-E1-E12
Method
                  BLASTX
NCBI GI
                  g2642433
```

```
E value
                  1.0e-29
Match length
                  84
% identity
NCBI Description
                   (AC002391) putative receptor protein kinase [Arabidopsis
                  thaliana]
Seq. No.
                  140624
Seq. ID
                  LIB25-041-Q1-E1-E7
Method
                  BLASTX
NCBI GI
                  g4539419
BLAST score
                  466
                  1.0e-46
E value
Match length
                  113
                  84
% identity
                   (ALO49171) putative ribosomal protein [Arabidopsis
NCBI Description
                  thaliana]
                  140625
Seq. No.
Seq. ID
                  LIB25-041-Q1-E1-F3
Method
                  BLASTN
NCBI GI
                  g4159705
BLAST score
                  174
                   5.0e-93
E value
Match length
                  423
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MGD8, complete sequence
Seq. No.
                  140626
Seq. ID
                  LIB25-041-Q1-E1-F4
Method
                  BLASTN
NCBI GI
                  g2264307
BLAST score
                  133
E value
                   1.0e-68
Match length
                  384
% identity
                   93
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MED24, complete sequence [Arabidopsis thaliana]
                  140627
Seq. No.
Seq. ID
                  LIB25-041-Q1-E1-F5
Method
                  BLASTN
NCBI GI
                  g2760168
BLAST score
                  41
E value
                  1.0e-13
Match length
                  198
% identity
                  84
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MEE6, complete sequence [Arabidopsis thaliana]
                  140628
Seq. No.
Seq. ID
                  LIB25-041-Q1-E1-F6
Method
                  BLASTX
NCBI GI
                  g4490737
                  307
BLAST score
E value
                  5.0e-28
Match length
```

```
% identity
NCBI Description
                   (AL035708) putative protein [Arabidopsis thaliana]
                   140629
Seq. No.
Seq. ID
                   LIB25-041-Q1-E1-G3
Method
                   BLASTX
NCBI GI
                   g3395756
BLAST score
                   609
                   2.0e-67
E value
                   128
Match length
% identity
NCBI Description
                   (U76297) plantacyanin [Arabidopsis thaliana] >gi 3461812
                   (AC004138) putative basic blue protein [Arabidopsis
                   thaliana]
                   140630
Seq. No.
Seq. ID
                   LIB25-041-Q1-E1-G7
Method
                  BLASTN
NCBI GI
                   g2264306
BLAST score
                   168
                   2.0e-89
E value
                   320
Match length
                   100
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MBK5, complete sequence [Arabidopsis thaliana]
                   140631
Seq. No.
Seq. ID
                  LIB25-041-Q1-E1-H2
Method
                  BLASTX
NCBI GI
                  g127041
BLAST score
                  252
                   7.0e-22
E value
                   46
Match length
% identity
NCBI Description
                  S-ADENOSYLMETHIONINE SYNTHETASE 1 (METHIONINE
                  ADENOSYLTRANSFERASE 1) (ADOMET SYNTHETASE 1)
                  >gi 81647 pir JN0131 methionine adenosyltransferase (EC
                   2.5.1.6) - Arabidopsis thaliana >gi_166872 (M55077)
                  S-adenosylmethionine synthetase [Arabidopsis thaliana]
                   140632
Seq. No.
Seq. ID
                  LIB25-042-Q1-E1-A12
Method
                  BLASTX
NCBI GI
                  g4314365
BLAST score
                  425
E value
                   6.0e-42
                  99
Match length
% identity
NCBI Description
                   (AC006340) putative copia-like retrotransposon Hopscotch
                   [Arabidopsis thaliana]
Seq. No.
                  140633
Seq. ID
                  LIB25-042-Q1-E1-A5
Method
                  BLASTX
NCBI GI
                  g3779021
BLAST score
                  598
E value .
                  3.0e-62
```

E value

4.0e-78

```
Match length
                  114
                  100
% identity
NCBI Description
                   (AC005171) putative reverse transcriptase [Arabidopsis
                  thaliana]
                  140634
Seq. No.
                  LIB25-042-Q1-E1-A7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1168609
BLAST score
                  403
E value
                  2.0e-39
                  89
Match length
% identity
                  83
NCBI Description
                  AUXIN-RESISTANCE PROTEIN AXR1 >gi 479664 pir S35071
                  auxin-resistance protein AXR1 - Arabidopsis thaliana
                  >gi 304104 (L13922) ubiquitin-activating enzyme E1
                   [Arabidopsis thaliana] >gi_2388579 (AC000098) Match to
                  Arabidopsis AXR1 (gb_ATHAXR1122). [Arabidopsis thaliana]
                  >gi 448755 prf 1917337A ubiquitin-activating enzyme E1
                   [Arabidopsis thaliana]
Seq. No.
                  140635
Seq. ID
                  LIB25-042-Q1-E1-A9
Method
                  BLASTX
NCBI GI
                  g1732572
BLAST score
                  129
E value
                  3.0e-31
Match length
                  107
% identity
NCBI Description
                  (U72154) beta-glucosidase [Brassica nigra]
Seq. No.
                  140636
Seq. ID
                  LIB25-042-Q1-E1-C2
Method
                  BLASTX
NCBI GI
                  g1350548
BLAST score
                  266
E value
                  3.0e-23
Match length
                  99
% identity
                  49
NCBI Description
                  (L47609) heat shock-like protein [Picea glauca]
Seq. No.
                  140637
Seq. ID
                  LIB25-042-Q1-E1-G7
Method
                  BLASTX
NCBI GI
                  g2827160
BLAST score
                  170
E value
                  5.0e-12
Match length
                  106
% identity
                  32
NCBI Description
                  (AF032667) rexo70 [Rattus norvegicus]
                  140638
Seq. No.
Seq. ID
                  LIB25-043-Q1-E1-B11
Method
                  BLASTX
NCBI GI
                  g2832695
BLAST score
                  734
```

Seq. ID

```
147
Match length
                    100
% identity
                    (AL021713) putative protein [Arabidopsis thaliana]
NCBI Description
                    140639
Seq. No.
                    LIB25-043-Q1-E1-C9
Seq. ID
                    BLASTX
Method
NCBI GI
                    q1345973
BLAST score
                    559
                    1.0e-57
E value
                    120
Match length
                    85
% identity
                    OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                    >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC 1.14.99.-) CF3 - Arabidopsis thaliana >gi_408483 (L22931)
                    omega-3 fatty acid desaturase [Arabidopsis thaliana]
                    >gi_471091_dbj_BAA04505_ (D17579) fatty acid desaturase
[Arabidopsis thaliana] >gi_1197795_dbj_BAA05514_ (D26508)
                    microsomal omega-3 fatty acid desaturase [Arabidopsis
                    thaliana] >gi 3420053 (AC004680) omega-3 fatty acid
                    desaturase [Arabidopsis thaliana]
Seq. No.
                    140640
Seq. ID
                    LIB25-043-Q1-E1-D7
Method
                    BLASTN
NCBI GI
                    q2924731
BLAST score
                    352
                    0.0e + 00
E value
Match length
                    432
                    98
% identity
                    Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                    MSI17, complete sequence [Arabidopsis thaliana]
                    140641
Seq. No.
                    LIB25-043-Q1-E1-D9
Seq. ID
Method
                    BLASTX
NCBI GI
                    q625977
BLAST score
                    620
E value
                    9.0e-65
Match length
                    120
                    100
% identity
                    p40 protein homolog - Arabidopsis thaliana >gi_402904
NCBI Description
                    (U01955) laminin receptor-like protein [Arabidopsis
                    thaliana]
                    140642
Seq. No.
Seq. ID
                    LIB25-043-Q1-E1-E11
Method
                    BLASTX
NCBI GI
                    q3915826
BLAST score
                    597
                    5.0e-62
E value
Match length
                    138
% identity
                    81
NCBI Description
                    60S RIBOSOMAL PROTEIN L5
                    140643
Seq. No.
```

LIB25-043-Q1-E1-H9

NCBI GI

```
BLASTX
Method
NCBI GI
                  g115783
BLAST score
                  557
                  2.0e-57
E value
                  105
Match length
                  99
% identity
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                   (CAB-140) (LHCP) >gi_16376_emb_CAA27543_ (X03909)
                  chlorophyll a/b binding protein (LHCP AB 140) [Arabidopsis
                  thaliana]
                  140644
Seq. No.
                  LIB25-044-Q1-E1-A3
Seq. ID
                  BLASTX
Method
                  g4567235
NCBI GI
                  552
BLAST score
                  7.0e-57
E value
                  129
Match length
% identity
                  82
                   (AC007119) putative phosphatidylinositol/phophatidylcholine
NCBI Description
                  transfer protein [Arabidopsis thaliana]
                  140645
Seq. No.
                  LIB25-044-Q1-E1-B10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2407802
BLAST score
                  217
                  1.0e-17
E value
                  52
Match length
% identity
                  (Y12576) histone H2B [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140646
                  LIB25-044-Q1-E1-B11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3695023
BLAST score
                  632
E value
                   4.0e-66
                  140
Match length
% identity
                  89
NCBI Description
                   (AF055850) unknown [Arabidopsis thaliana]
Seq. No.
                  140647
                  LIB25-044-Q1-E1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4006851
BLAST score
                  250
E value
                   5.0e-22
Match length
                  57
% identity
                   (Z99707) cytochrome P450-like protein [Arabidopsis
NCBI Description
                  thaliana]
                  140648
Seq. No.
                  LIB25-044-Q1-E1-B8
Seq. ID
Method
                  BLASTX
```

g3299896

```
BLAST score
                   386
E value
                   3.0e-37
Match length
                   145
                   55
% identity
                   (AF020390) beta-galactosidase [Lycopersicon esculentum]
NCBI Description
Seq. No.
                   140649
Seq. ID
                   LIB25-044-Q1-E1-C10
Method
                   BLASTX
NCBI GI
                   q2760325
BLAST score
                   472
                   2.0e-47
E value
                   146
Match length
% identity
                   72
                   (AC002130) F1N21.10 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140650
                   LIB25-044-Q1-E1-C4
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3510339
BLAST score
                   176
                   2.0e-94
E value
Match length
                   290
% identity
                   97
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K3K7, complete sequence [Arabidopsis thaliana]
                   140651
Seq. No.
Seq. ID
                   LIB25-044-Q1-E1-C9
Method
                   BLASTX
NCBI GI
                   g1146165
BLAST score
                   328
E value
                   2.0e-30
Match length
                   62
% identity
NCBI Description
                   (L47479) urophorphyrin III methylase [Arabidopsis thaliana]
                   140652
Seq. No.
Seq. ID
                   LIB25-044-Q1-E1-D1
Method
                   BLASTX
NCBI GI
                   q2245048
BLAST score
                   600
E value
                   2.0e-62
Match length
                   136
                   18
% identity
NCBI Description
                   (Z97342) resistance gene homolog [Arabidopsis thaliana]
Seq. No.
                   140653
Seq. ID
                   LIB25-044-Q1-E1-F12
Method
                   BLASTN
NCBI GI
                   q3212846
BLAST score
                   31
E value
                   2.0e-08
Match length
                   80
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F6E13 genomic
```

sequence, complete sequence [Arabidopsis thaliana]

 $\mathbb{D}^{1/2}$ 

```
140654
Seq. No.
                   LIB25-044-Q1-E1-G6
Seq. ID
                  BLASTX
Method
                   g1103318
NCBI GI
BLAST score
                   292
                   2.0e-26
E value
Match length
                   61
% identity
                   95
                   (X78818) casein kinase I [Arabidopsis thaliana]
NCBI Description
                   >gi_2244791_emb_CAB10213.1 (Z97336) casein kinase I
                   [Arabidopsis thaliana]
                   140655
Seq. No.
Seq. ID
                   LIB25-044-Q1-E1-G8
Method
                   BLASTX
NCBI GI
                   g2580440
BLAST score
                   231
E value
                   4.0e-19
Match length
                   59
                   73
% identity
NCBI Description
                   (D87261) PCF2 [Oryza sativa]
Seq. No.
                   140656
                   LIB25-045-Q1-E1-A10
Seq. ID
Method
                   BLASTN
NCBI GI
                   q431257
BLAST score
                   438
E value
                   0.0e+00
Match length
                   438
% identity
                   100
                  Arabidopsis thaliana lipoxygenase (Lox2) mRNA, complete cds
NCBI Description
                   140657
Seq. No.
                   LIB25-045-Q1-E1-A4
Seq. ID
Method
                   BLASTX
NCBI GI
                   q2677828
BLAST score
                   401
E value
                   4.0e-39
Match length
                   103
                   73
% identity
NCBI Description
                   (U93166) cysteine protease [Prunus armeniaca]
                   140658
Seq. No.
Seq. ID
                   LIB25-045-Q1-E1-A5
Method
                   BLASTX
NCBI GI
                   q3142294
BLAST score
                   737
E value
                   2.0e-78
Match length
                   147
                   99
% identity
                   (AC002411) Strong similarity to initiation factor eIF-2,
NCBI Description
                   gb_U37354 from S. pombe. ESTs gb_T41979, gb_N37284 and
                   gb_N37529 come from this gene. [Arabidopsis thaliana]
                   140659
Seq. No. .:
Seq. ID
                   LIB25-045-Q1-E1-C5
```

Method

```
Method
                  BLASTX
NCBI .GI
                  g2746341
BLAST score
                  406
E value
                  1.0e-39
Match length
                  84
% identity
NCBI Description
                  (AF037590) ATA27 [Arabidopsis thaliana]
Seq. No.
                  140660
                  LIB25-045-Q1-E1-C8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q99752.
BLAST score
                  604
                  7.0e-63
E value
Match length
                  146
                  82
% identity
                  protochlorophyllide reductase (EC 1.3.1.33) precursor -
NCBI Description
                  Arabidopsis thaliana
Seq. No.
                  140661
Seq. ID
                  LIB25-045-Q1-E1-D10
Method
                  BLASTN
NCBI GI
                  g4581138
                  395
BLAST score
E value
                  0.0e + 00
Match length
                  399
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F1011 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  140662
Seq. ID
                  LIB25-045-Q1-E1-D5
Method
                  BLASTX
NCBI GI
                  g461753
BLAST score
                  251
E value
                  2.0e-21
                  53
Match length
% identity
                  ATP-DEPENDENT CLP PROTEASE ATP-BINDING SUBUNIT CLPA HOMOLOG
NCBI Description
                  PRECURSOR >gi 419773 pir S31164 ATP-dependent ClpB
                  proteinase regulatory chain homolog precursor, chloroplast
                  - garden pea >gi_169128 (L09547) nuclear encoded precursor
                  to chloroplast protein [Pisum sativum]
                  140663
Seq. No.
Seq. ID
                  LIB25-045-Q1-E1-D6
Method
                  BLASTN
NCBI GI
                  q3193282
                  190
BLAST score
                  1.0e-102
E value
                  414
Match length
% identity
                  100
NCBI Description Arabidopsis thaliana BAC T14P8
                  140664
Seq. No.
                  LIB25-045-Q1-E1-D7
Seq. ID
```

BLASTX

```
g2781354
 NCBI GI
 BLAST score
                    648
 E value
                   5.0e-68
                                                                           وعرية
 Match length
                   122
 % identity
 NCBI Description
                   (AC003113) F2401.10 [Arabidopsis thaliana]
                   140665
 Seq. No.
 Seq. ID
                   LIB25-045-Q1-E1-G10
 Method
                   BLASTN
 NCBI GI
                   q2351065
 BLAST score
                   32
                    3.0e-09
 E value
                    56
 Match length
                    86
 % identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
 NCBI Description
                   MHF15, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    140666
                   LIB25-045-Q1-E1-G6
 Seq. ID
 Method
                   BLASTN
 NCBI GI
                   g3763944
 BLAST score
                   216
 E value
                    1.0e-118
                    442
 Match length
                    100
 % identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F28A23
NCBI Description
                    (ESSAII project)
 Seq. No.
                    140667
                   LIB25-045-Q1-E1-G9
 Seq. ID
 Method
                   BLASTN
 NCBI GI
                    g2828184
                    264
 BLAST score
 E value
                    1.0e-147
                    300
 Match length
                    99
 % identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
 NCBI Description
                   MSN9, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    140668
                   LIB25-046-Q1-E1-D5
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g3738287
 BLAST score
                    384
 E value
                    2.0e-37
                   84
 Match length
 % identity
                    (AC005309) glutathione s-transferase, GST6 [Arabidopsis
 NCBI Description
                   thaliana]
                    140669
 Seq. No.
                   LIB25-046-Q1-E1-E6
 Seq. ID
 Method
                   BLASTN
 NCBI GI
                   g3367567
 BLAST score
                   148
```

2.0e-77

E value

```
449
Match length
                    100
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F8D20
NCBI Description
                    (ESSAII project)
                   140670
Seq. No.
Seq. ID
                   LIB25-047-Q1-E1-C1
Method
                   BLASTN
NCBI GI
                   q4249393
BLAST score
                   173
                    2.0e-92
E value
                    416
Match length
                    100
% identity
                   Arabidopsis thaliana chromosome II BAC T9J23 genomic
NCBI Description
                    sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                    140671
                    LIB25-047-Q1-E1-C6*
Seq. ID
Method
                    BLASTX
NCBI GI
                    g3738327
BLAST score
                    417
E value
                    6.0e-41
Match length
                    113
% identity
                    73
                    (AC005170) putative serine carboxypeptidase [Arabidopsis
NCBI Description
                    thaliana]
Seq. No.
                    140672
                    LIB25-047-Q1-E1-D9
Seq. ID
Method
                    BLASTX
NCBI GI
                    g2129604
BLAST score
                    521
E value
                    3.0e-53
Match length
                    100
                    100
% identity
NCBI Description
                    GTP-binding protein 1 - Arabidopsis thaliana
                   >gi_2129607_pir__S71584 GTP-binding protein ATBG1 -
Arabidopsis thaliana >gi_1184981 (U46924) ATGB1
                    [Arabidopsis thaliana]
Seq. No.
                    140673
                    LIB25-047-Q1-E1-E5.
Seq. ID
Method
                    BLASTN
NCBI GI
                    g4490734
                    158
BLAST score
E value
                    1.0e-83
Match length
                    265
% identity
                    100
                    Arabidopsis thaliana DNA chromosome 4, BAC clone (ESSA
NCBI Description
                    project)
                    140674
Seq. No.
                    LIB25-047-Q1-E1-F8
Seq. ID
Method
                    BLASTN
NCBI GI
                    g3540210
BLAST score
                    64
E value
                    3.0e-28
```

```
68
Match length
                   99
% identity
                   Arabidopsis thaliana chromosome I BAC F5A8 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140675
Seq. No.
Seq. ID
                   LIB25-047-Q1-E1-G9
Method
                   BLASTX
NCBI GI
                   g3075394
BLAST score
                   593
                   1.0e-61
E value
Match length
                   117
                   99
% identity
                   (AC004484) putative beta-ketoacyl-CoA synthase [Arabidopsis
NCBI Description
                   thaliana] >gi 3559809 emb CAA09311 (AJ010713) fiddlehead
                   protein [Arabidopsis thaliana]
                   140676
Seq. No.
                   LIB25-048-Q1-E1-B10
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1480078
BLAST score
                   473
E value
                   1.0e-47
Match length
                   95
                   99
% identity
NCBI Description
                   (X99696) shaggy-like protein kinase iota [Arabidopsis
                   thaliana] >gi_2444277_gb_AAB71545.1_ (AF019927)
                   GSK3/shaggy-like protein kinase [Arabidopsis thaliana]
                   140677
Seq. No.
Seq. ID
                   LIB25-048-Q1-E1-C6
Method
                   BLASTX
NCBI GI
                   q3193296
BLAST score
                   659
                   3.0e-69
E value
Match length
                   131
% identity
                   92
                   (AF069298) similar to pectinesterase [Arabidopsis thaliana]
NCBI Description
                   140678
Seq. No.
Seq. ID
                   LIB25-048-Q1-E1-F7
Method
                   BLASTN
NCBI GI
                   q3668172
BLAST score
                   109
                   6.0e-55
E value
Match length
                   109
% identity
                   100
NCBI Description
                   Arabidopsis thaliana vspl gene for vegetative storage
                   protein, complete cds
                   140679
Seq. No.
Seq. ID
                   LIB25-048-Q1-E1-F9
Method
                   BLASTN
                   g3641835
NCBI GI
BLAST score
                   54
                   2.0e-22
E value
Match length
                   58
```

```
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T4L20
                   (ESSAII project)
Seq. No.
                   140680
Seq. ID
                  LIB25-048-Q1-E1-G3
Method
                  BLASTX
NCBI GI
                  q1550740
BLAST score
                   411
E value
                   1.0e-40
Match length
                  78
                   100
% identity
                   (Y07961) GDP-associated inhibitor [Arabidopsis thaliana]
NCBI Description
                  140681
Seq. No.
Seq. ID
                  LIB25-048-Q1-E1-H7
Method
                  BLASTN
NCBI GI
                  g4753645
BLAST score
                  171
                   3.0e-91
E value
Match length
                  321
                   100
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F17N18
                   (ESSA project)
                  140682
Seq. No.
Seq. ID
                  LIB25-049-Q1-E1-A2
Method
                  BLASTX
NCBI GI
                  g3004557
BLAST score
                   678
E value
                  2.0e-71
Match length
                  150
% identity
                   91
NCBI Description
                   (AC003673) plasma membrane proton pump H+ ATPase, PMA1
                   [Arabidopsis thaliana]
                  140683
Seq. No.
Seq. ID
                  LIB25-049-Q1-E1-B10
Method
                  BLASTN
NCBI GI
                  g4580744
BLAST score
                  171
                  1.0e-91
E value
Match length
                  175
% identity
                  99
NCBI Description
                  Sequence of BAC F15I1 from Arabidopsis thaliana chromosome
                  1, complete sequence
                  140684
Seq. No.
Seq. ID
                  LIB25-049-Q1-E1-C4
Method
                  BLASTX
                  g3355480
NCBI GI
BLAST score
                  539
E value
                  2.0e-55
Match length
                  106
% identity
                  100
NCBI Description
                   (AC004218) Medicago nodulin N21-like protein [Arabidopsis
```

thaliana]

```
Seq. No.
                   140685
Seq. ID
                   LIB25-049-Q1-E1-F12
Method
                   BLASTN
NCBI GI
                   g3241926
BLAST score
                   317
E value
                   1.0e-178
Match length
                   452
                   100
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MSG15, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140686
Seq. ID
                   LIB25-049-Q1-E1-F4
Method
                   BLASTN
NCBI GI
                   q2351064
BLAST score
                   330
E value
                   0.0e+00
Match length
                   409
                   99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MDJ22, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140687
Seq. ID
                   LIB25-049-Q1-E1-G10
Method
                   BLASTX
NCBI GI
                   q4587600
BLAST score
                   346
E value
                   4.0e-35
Match length
                   80
% identity
                   91
                   (AC006951) putative translation initiation factor EIF-1A
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   140688
Seq. ID
                   LIB25-049-Q1-E1-H2
Method
                   BLASTN
NCBI GI
                   g4006815
BLAST score
                   416
                   0.0e + 00
E value
Match length
                   423
% identity
                   100
                  Arabidopsis thaliana chromosome II BAC T6P5 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140689
Seq. ID
                  LIB25-050-Q1-E1-A4
                  BLASTX
Method
                   g4539389
NCBI GI
BLAST score
                   286
                   8.0e-26
E value
Match length
                  . 58
                   100
% identity
                   (AL035526) putative protein kinase [Arabidopsis thaliana]
NCBI Description
                   140690
Seq. No.
                  LIB25-050-Q1-E1-D11
Seq. ID
```

BLAST score

161

```
Method
                   BLASTX -
NCBI GI
                   g1199967
BLAST score
                   215
E value
                   2.0e-17
Match length
                   42
% identity
                   100
NCBI Description (X95689) histone H4 [Allium cepa]
                   140691
Seq. No.
Seq. ID
                   LIB25-050-Q1-E1-D12
Method
                   BLASTX
NCBI GI
                   g2506496
BLAST score
                   688
E value
                   1.0e-72
Match length
                   132
                   100
% identity
                  GLUTATHIONE S-TRANSFERASE ERD11 (CLASS PHI)
NCBI Description
                   >gi_1890156_emb_CAA72413_ (Y11727) gluthatione
                   S-transferase [Arabidopsis thaliana]
                   140692
Seq. No.
                   LIB25-050-Q1-E1-D2
Seq. ID
Method
                   BLASTX
NCBI GI
                   q445612
                   309
BLAST score
E value
                   1.0e-28
                   77
Match length
                   78
% identity
NCBI Description ribosomal protein S19 [Solanum tuberosum]
                   140693
Seq. No.
                   LIB25-050-Q1-E1-E1
Seq. ID
Method
                   BLASTX
                   g3980404
NCBI GI
BLAST score
                   477
E value
                   4.0e-48
Match length
                   95
                   100
% identity
                   (AC004561) putative tropinone reductase [Arabidopsis
NCBI Description
                   thaliana]
                   140694
Seq. No.
                   LIB25-050-Q1-E1-G12
Seq. ID
                  BLASTX
Method
NCBI GI
                   g3668173
BLAST score
                   612
E value
                   8.0e-64
Match length
                   132
                   92
% identity
                   (AB006777) vegetative storage protein [Arabidopsis
NCBI Description
                   thaliana]
                   140695
Seq. No.
                   LIB25-051-Q1-E1-B1
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1762150
```

% identity

87

```
1.0e-11
E value
Match length
                  35
% identity
                  (U49919) lupeol synthase [Arabidopsis thaliana]
NCBI Description
                   140696
Seq. No.
Seq. ID
                  LIB25-051-Q1-E1-C8
Method
                  BLASTN
NCBI GI
                  q3510337
BLAST score
                  348
E value
                   0.0e + 00
Match length
                   456
                   98
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K19E20, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140697
                  LIB25-051-Q1-E1-F9
Seq. ID
Method
                  BLASTN
NCBI GI
                   g2833627
BLAST score
                   175
E value
                   6.0e-94
Match length
                  175
% identity
                   100
NCBI Description
                  Arabidopsis thaliana chromosome 1 BAC F1707 complete
                   sequence [Arabidopsis thaliana]
Seq. No.
                   140698
                   LIB25-052-Q1-E1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                   g2583123
BLAST score
                   499
E value
                   1.0e-50
Match length
                   127
% identity
NCBI Description
                   (AC002387) putative nucleotide sugar epimerase [Arabidopsis
                   thaliana]
Seq. No.
                   140699
                   LIB25-052-Q1-E1-B6
Seq. ID
Method
                  BLASTN
NCBI GI
                   g37.66106
BLAST score
                   140
                   3.0e-73
E value
Match length
                   164
% identity
                   98
                  Arabidopsis thaliana chromosome 1 BAC F9K20 sequence,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
Seq. No.
                   140700
Seq. ID
                  LIB25-052-Q1-E1-C4
Method
                  BLASTX
NCBI GI
                   q3785991
BLAST score
                   488
                   4.0e-54
E value
Match length
                  124
```

```
NCBI Description (AC005560) putative MAP kinase [Arabidopsis thaliana]
Seq. No.
Seq. ID
                   140701
                   LIB25-052-Q1-E1-F9
Method
                   BLASTX
NCBI GI
                   g2129640
BLAST score
                   420
E value
                   2.0e-41
Match length
                  84
% identity
                   100
                   magnesium chelatase chain - Arabidopsis thaliana
NCBI Description
                   >gi 1154627_emb_CAA92802_ (Z68495) magnesium chelatase
                   subunit [Arabidopsis thaliana]
Seq. No.
                   140702
Seq. ID
                   LIB25-052-Q1-E1-G7
Method
                   BLASTN
NCBI GI
                   g2245031
BLAST score
                   429 /
E value
                   0.0e + 00
Match length
                   435
                   100
% identity
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
                   fragment No
Seq. No.
                   140703
                   LIB25-052-Q1-E1-G8
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4415928
BLAST score
                   373
E value
                   0.0e + 00
Match length
                   377
                   100
% identity
                   Arabidopsis thaliana chromosome II BAC F13A10 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140704
Seq. ID
                   LIB25-053-Q1-E1-A6
Method
                   BLASTN
NCBI GI
                   q16500
BLAST score
                   122
E value
                   1.0e-62
Match length
                   122
% identity
                  A.thaliana rp19 gene for chloroplast ribosomal protein CL9
NCBI Description
Seq. No.
                   140705
Seq. ID
                   LIB25-053-Q1-E1-A8
Method
                   BLASTN
NCBI GI
                   q2245031
BLAST score
                   41
                   3.0e-14
E value
Match length
                   144
                   95
% identity
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                   fragment No
```

```
140706
Seq. No.
Seq. ID
                  LIB25-053-Q1-E1-B11
                  BLASTN
Method
NCBI GI
                  g4154284
BLAST score
                  117
                  1.0e-59
E value
Match length
                  138
% identity
                  95
                  Arabidopsis thaliana germin-like protein 1 (GLP1) gene,
NCBI Description
                  complete cds
Seq. No.
                  140707
Seq. ID
                  LIB25-053-Q1-E1-C10
Method
                  BLASTX
NCBI GI
                  g115783
BLAST score
                  607
E value
                  3.0e-63
Match length
                  115
% identity
                  99
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                   (CAB-140) (LHCP) >gi 16376_emb_CAA27543 (X03909)
                  chlorophyll a/b binding protein (LHCP AB 140) [Arabidopsis
                  thaliana]
Seq. No.
                  140708
Seq. ID
                  LIB25-053-Q1-E1-C11
Method
                  BLASTN
NCBI GI
                  q2264319
BLAST score
                  33
E value
                  7.0e-09
Match length
                  49
% identity
                  92
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MXA21, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140709
Seq. ID
                  LIB25-053-Q1-E1-D8
Method
                  BLASTN
NCBI GI
                  q4558521
BLAST score
                  286
E value
                  1.0e-160
                  286
Match length
                  100
% identity
                  Genomic sequence for Arabidopsis thaliana BAC T10024,
NCBI Description
                  complete sequence
Seq. No.
                  140710
                  LIB25-053-Q1-E1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4538963
                  539
BLAST score
                                             ...
E value
                  3.0e-55
Match length
                  132
% identity
                  62
                   (AL049488) chlorophyll a/b-binding protein-like
NCBI Description
                   [Arabidopsis thaliana] >gi 4741958 gb AAD28776.1 AF134129_1
```

(AF134129) Lhcb5 protein [Arabidopsis thaliana]

```
140711
Seq. No.
Seq. ID
                  LIB25-053-Q1-E1-E2
Method
                   BLASTX
NCBI GI
                   g2642446
BLAST score
                   607
E value
                   2.0e-63
Match length
                   115
                   100
% identity
NCBI Description
                   (AC002391) similar to auxin-responsive GH3 protein
                   [Arabidopsis thaliana]
Seq. No.
                   140712
Seq. ID
                  LIB25-053-Q1-E1-E9
Method
                   BLASTX
NCBI GI
                   g2160158
BLAST score
                   496
E value
                   3.0e-50
Match length
                   115
                   83
% identity
                   (AC000132) Similar to elongation factor 1-gamma
NCBI Description
                   (gb_EF1G_XENLA). ESTs gb_T20564, gb T45940, gb T04527 come
                   from this gene. [Arabidopsis thaliana]
Seq. No.
                   140713
Seq. ID
                  LIB25-053-Q1-E1-G5
Method
                  BLASTN
NCBI GI
                   q4589438
BLAST score
                  253
E value
                   1.0e-140
                  257
Match length
% identity
                   100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MQJ2, complete sequence
Seq. No.
                  140714
Seq. ID
                  LIB25-053-Q1-E1-H7
Method
                  BLASTN
NCBI GI
                  q3860242
BLAST score
                  207
E value
                   1.0e-113
Match length
                  211
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome I BAC T13M11 genomic
                  sequence, complete sequence
Seq. No.
                  140715
Seq. ID
                  LIB25-054-Q1-E1-C9
Method
                  BLASTX
NCBI GI
                  q4006875
BLAST score
                  397
E value
                  7.0e-39
Match length
                  95
% identity
NCBI Description
                  (299707) putative protein [Arabidopsis thaliana]
Seq. No.
                  140716
```

Seq. No.

```
Seq. ID
                  LIB25-054-Q1-E1-D1
Method
                  BLASTN
NCBI GI
                  g4584531
BLAST score
                  128
                  6.0e-66
E value
Match length
                  214
% identity
                  95
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T9E8
NCBI Description
                   (ESSA project)
                  140717
Seq. No.
Seq. ID
                  LIB25-054-Q1-E1-D8
                  BLASTN
Method
NCBI GI
                  q2618683
BLAST score
                  86
                  3.0e-41
E value
                  94
Match length
                  98
% identity
                  Arabidopsis thaliana chromosome II BAC T32G6 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140718
                  LIB25-054-Q1-E1-G5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2194125
BLAST score
                  352
E value
                  1.0e-33
Match length
                  85
                  82
% identity
                   (AC002062) ESTs gb R30459, gb N38441 come from this gene.
NCBI Description
                   [Arabidopsis thaliana]
                  140719
Seq. No.
                  LIB25-055-P1-E1-A12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4733968
BLAST score -
                  423
                  0.0e + 00
E value
Match length
                  427
% identity
                  88
                  Arabidopsis thaliana chromosome II BAC F12P23 genomic
NCBI Description
                  sequence, complete sequence
                  140720
Seq. No.
Seq. ID
                  LIB25-055-P1-E1-B12
Method
                  BLASTX
NCBI GI
                  g133448
BLAST score
                  327
                  1.0e-30
E value
                  74
Match length
% identity
                  84
                  DNA-DIRECTED RNA POLYMERASE BETA" CHAIN
NCBI Description
                  >gi 81503_pir__A29959 DNA-directed RNA polymerase (EC
                  2.7.7.6) beta chain - spinach chloroplast >gi_295122
                   (M55297) RNA polymerase [Spinacia oleracea]
                 140721
```

Seq. No.

```
LIB25-055-P1-E1-E7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2501296
BLAST score
                  173
                  2.0e-12
E value
Match length
                  44
% identity
                  73
                  DNA GYRASE SUBUNIT B >gi_1652801_dbj_BAA17720 (D90908) DNA
NCBI Description
                  gyrase B subunit [Synechocystis sp.]
                  140722
Seq. No.
Seq. ID
                  LIB25-055-P1-E1-F8
Method
                  BLASTN
NCBI GI
                  q3449331
BLAST score
                  233
                  1.0e-128
E value
                  233
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MNC17, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140723
                  LIB25-055-P1-E1-H4
Seq. ID
                  BLASTN
Method
                  q4755185
NCBI GI
BLAST score
                  268
                  1.0e-149
E value
                  524
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F5G3 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
Seq. ID
                  140724
                  LIB25-056-Q1-E1-B11
Method
                  BLASTX
NCBI GI
                  g1175013
BLAST score
                  458
                  7.0e-46
E value
                  103
Match length
                  87
% identity
                  PLASMA MEMBRANE INTRINSIC PROTEIN 2A >gi 629542 pir S44084
NCBI Description
                  plasma membrane intrinsic protein 2a - Arabidopsis thaliana
                  >gi 472877 emb CAA53477 (X75883) plasma membrane intrinsic
                  protein 2a [Arabidopsis thaliana]
Seq. No.
                  140725
Seq. ID
                  LIB25-056-Q1-E1-C8
                  BLASTN
Method
                  q4678258
NCBI GI
BLAST score
                  135
                   5.0e-70
E value
                  207
Match length
                   95
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F617
NCBI Description
                   (ESSA project)
```

```
LIB25=056-Q1-E1-E11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g166708.
                  200
BLAST score
E value
                  4.0e-16
Match length
                  49
% identity
                  86
                   (M64118) glyceraldehyde-3-phosphate dehydrogenase
NCBI Description
                   [Arabidopsis thaliana]
                  140727
Seq. No.
                  LIB25-056-Q1-E1-H5
Seq. ID
Method
                  BLASTN
                  g2477521
NCBI GI
BLAST score
                  248
                  1.0e-137
E value
                  271
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome I BAC F22K20 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140728
                  LIB25-057-Q1-E1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2119848
BLAST score
                  446
E value
                  2.0e-44
Match length
                  87
                  97
% identity
NCBI Description
                  chlorophyll a/b-binding protein type I precursor Lhb1B1 -
                  Arabidopsis thaliana >gi_16366_emb_CAA45789_ (X64459)
                  photosystem II type I chlorophyll a /b binding protein
                   [Arabidopsis thaliana] >gi_3128229 (AC004077) putative
                  photosystem II type I chlorophyll a/b binding protein
                   [Arabidopsis thaliana] >gi_3337372 (AC004481) putative
                  photosystem II type I chlorophyll a/b binding protein
                   [Arabidopsis thaliana]
Seq. No.
                  140729
                  LIB25-057-Q1-E1-D6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g430947
                  587
BLAST score
E value
                   5.0e-61
                  108
Match length
% identity
                  100
NCBI Description
                   (U01103) PSI type III chlorophyll a/b-binding protein
                   [Arabidopsis thaliana]
Seq. No.
                  140730
Seq. ID
                  LIB25-057-Q1-E1-E3
Method
                  BLASTX
NCBI GI
                  q1617013
BLAST score
                  288
                   6.0e-26
E value
                  57
Match length
% identity
                  100
```

BLASTN

```
NCBI Description
                   (Y07745) histone H2B like protein [Arabidopsis thaliana]
                   140731
Seq. No.
Seq. ID
                   LIB25-057-Q1-E1-F7
Method
                   BLASTN
NCBI GI
                   q3540210
BLAST score
                   70
E value
                   2.0e-31
Match length
                   98
                   93
% identity
NCBI Description
                   Arabidopsis thaliana chromosome I BAC F5A8 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140732
                   LIB25-058-P1-E1-A7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3776005
BLAST score
                   370
E value
                   2.0e-35
Match length
                   87
% identity
                   (AJ010466) RNA helicase [Arabidopsis thaliana]
NCBI Description
                   140733
Seq. No.
                   LIB25-058-P1-E1-F11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2244859
BLAST score
                   205
E value
                   3.0e-16
Match length
                   63
% identity
NCBI Description
                   (Z97337) hypothetical protein [Arabidopsis thaliana]
Seq. No.
                   140734
Seq. ID
                   LIB25-058-P1-E1-F2
Method
                   BLASTN
NCBI GI
                   g3821780
BLAST score
                   36
E value
                   1.0e-10
                   36
Match length
                   100
% identity
                   Xenopus laevis cDNA clone 27A6-1
NCBI Description
                   140735
Seq. No.
Seq. ID
                   LIB25-058-P1-E1-H10
Method
                   BLASTN
NCBI GI
                   q3228389
BLAST score
                   114
                   2.0e-57
E value
Match length
                   301
                   97
% identity
                   Genomic sequence for Arabidopsis thaliana BAC F17L21,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
Seq. No.
                   140736
Seq. ID
                   LIB25-058-P1-E1-H8
```

NCBI GI

```
NCBL GI
                ____g3449325
                   374
BLAST score
                   0.0e + 00
E value
                   401
Match length
 % identity
                   89
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                   K16H17, complete sequence [Arabidopsis thaliana]
                   140737
Seq. No.
                   LIB25-059-Q1-E1-B1
Seq. ID
Method
                   BLASTN
NCBI GI
                   q972918
BLAST score
                   156
                   1.0e-82
E value
                   184
Match length
                   96
 % identity
                   Arabidopsis thaliana IAA8 (IAA8) gene complete cds
NCBI Description
                   140738
Seq. No.
                   LIB25-059-Q1-E1-C10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1703091
BLAST score
                   609
E value
                   1.0e-63
                   120
Match length
% identity
                   100
                   ACYL CARRIER PROTEIN, MITOCHONDRIAL PRECURSOR (ACP)
NCBI Description
                   (NADH-UBIQUINONE OXIDOREDUCTASE 9.6 KD SUBUNIT) (MTACP-1)
                   >gi_903689 (L23574) acyl carrier protein precursor
                   [Arabidopsis thaliana] >gi_3341682 (AC003672) acyl carrier
                   protein [Arabidopsis thaliana]
Seq. No.
                   140739
                   LIB25-059-Q1-E1-C11
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2584827
BLAST score
                   350
E value
                   0.0e + 00
                   370
Match length
                   99
% identity
                   Arabidopsis thaliana chromosome 1 BAC F12F1 sequence,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   140740
Seq. No.
Seq. ID
                   LIB25-059-Q1-E1-D11
Method
                   BLASTX
NCBI GI
                   g3096935
BLAST score
                   199
E value
                   2.0e-15
Match length
                   . 69
% identity
                   (AL023094) putative protein [Arabidopsis thaliana]
NCBI Description
                   140741
Seq. No.
                   LIB25-059-Q1-E1-D9
Seq. ID
Method
                   BLASTX
```

g1353052

Seq. ID

```
BLAST score
                   4.0e-12
E value
Match length
                  65
% identity
NCBI Description
                  HYPOTHETICAL 35.6 KD PROTEIN IN SPC1-ILV3 INTERGENIC REGION
                  >gi 1077867 pir S55201 hypothetical protein YJR013w -
                  yeast (Saccharomyces cerevisiae) >gi_854586 emb CAA60935_
                   (X87611) ORF YJR83.11 [Saccharomyces cerevisiae]
                  >gi_1015644_emb_CAA89537_ (Z49513) ORF YJR013w
                  [Saccharomyces cerevisiae]
Seq. No.
                  140742
Seq. ID
                  LIB25-059-Q1-E1-G10
Method
                  BLASTN
NCBI GI
                  g3785992
BLAST score
                  124
E value
                  3.0e-63
Match length
                  398
                  99
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T6A23 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
                  140743
Seq. No.
Seq. ID
                  LIB25-059-Q1-E1-G12
Method
                  BLASTN
NCBI GI
                  q4510338
BLAST score
                  216
                  1.0e-118
E value
Match length
                  340
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F2H17 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  140744
Seq. ID
                  LIB25-059-Q1-E1-H2
Method
                  BLASTN
NCBI GI
                  g3985955
BLAST score
                  65
E value
                  1.0e-28
Match length
                  128
% identity
                  85
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MTH16, complete sequence [Arabidopsis thaliana].
Seq. No.
                  140745
Seq. ID
                  LIB25-060-Q1-E1-C1
Method
                  BLASTN
NCBI GI
                  g2182289
BLAST score
                  302
E value
                  1.0e-169
Match length
                  318
                  99
% identity
                  Arabidopsis thaliana chromosome I BAC F11P17 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  140746
Seq. No.
```

LIB25-060-Q1-E1-D1

```
Method
                  BLASTN
NCBI GI
                  g3668073
BLAST score
                  100
                  3.0e-49
E value
                  180
Match length
% identity
                   97
                  Arabidopsis thaliana chromosome II BAC T4C15 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140747
Seq. ID
                  LIB25-060-Q1-E1-D11
                  BLASTN
Method
NCBI GI
                  g4468103
                  349
BLAST score
                   0.0e+00
E value
                  389
Match length
                   97
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone M3E9
NCBI Description
                   (ESSA project)
                  140748
Seq. No.
                  LIB25-060-Q1-E1-D9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3348077
BLAST score
                  141
                   1.0e-08
E value
                  83
Match length
                   39
% identity
                   (AF078080) isochorismate synthase [Arabidopsis thaliana]
NCBI Description
                   140749
Seq. No.
                  LIB25-060-Q1-E1-F8
Seq. ID
Method
                  BLASTN
NCBI GI
                   q4038029
BLAST score
                  250
E value
                   1.0e-138
                  250
Match length
                   100
% identity
                  Arabidopsis thaliana chromosome II BAC F504 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140750
Seq. No.
                  LIB25-061-Q1-E1-C8
Seq. ID
Method
                  BLASTN
NCBI GI
                   g3241927
BLAST score
                  298
E value
                   1.0e-167
                   358 -
Match length
                  96
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MTE17, complete sequence [Arabidopsis thaliana]
                   140751
Seq. No.
                  LIB25-061-Q1-E1-D12
Seq. ID
                  BLASTN
Method
NCBI GI
                  q3249094
BLAST score
                  143
```

```
4.0e-75
E value
Match length
                   143
% identity
                   100
NCBI Description
                  Arabidopsis thaliana chromosome 1 BAC T12M4 sequence,
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  140752
Seq. ID
                  LIB25-061-Q1-E1-E2
Method
                  BLASTX
NCBI GI
                  q4704732
BLAST score
                  592
E value
                  2.0e-61
Match length
                  133
% identity
                   87
NCBI Description
                   (AF121356) peroxiredoxin TPx2 [Arabidopsis thaliana]
Seq. No.
                  140753
Seq. ID
                  LIB25-061-Q1-E1-E4
Method
                  BLASTN
NCBI GI
                  g4163996
BLAST score
                  202
E value
                  1.0e-110
Match length
                  229
                  96
% identity
                  Arabidopsis thaliana alpha-xylosidase precursor (XYL1)
NCBI Description
                  mRNA, partial cds
Seq. No.
                  140754
Seq. ID
                  LIB25-061-Q1-E1-E5
Method
                  BLASTX
NCBI GI
                  g4584346
BLAST score
                  265
E value
                  4.0e-23
Match length
                  87
% identity
NCBI Description
                  (AC007127) unknown protein [Arabidopsis thaliana]
                  140755
Seq. No.
Seq. ID
                  LIB25-061-Q1-E1-F4
Method
                  BLASTX
NCBI GI
                  g2244977
BLAST score
                  617
E value
                  2.0e-64
Match length
                  133
% identity
NCBI Description
                  (Z97340) cysteine proteinase [Arabidopsis thaliana]
                  140756
Seq. No.
Seq. ID
                  LIB25-061-Q1-E1-F8
Method
                  BLASTN
NCBI GI
                  g3309085
BLAST score
                  53
E value
                  2.0e-21
Match length
                  138
% identity
                  98
NCBI Description
                  Arabidopsis thaliana calcineurin B-like protein 3 (CBL3)
                  mRNA, complete cds
```

```
140757
Seq. No.
Seq. ID
                  LIB25-061-Q1-E1-G2
Method
                  BLASTX
NCBI GI
                  g3929649
BLAST score
                  601
E value
                  1.0e-62
                  122
Match length
                 . 100
                                        $ identity
NCBI Description (AJ131205) mitochondrial NAD-dependent malate dehydrogenase
                  [Arabidopsis thaliana]
Seq. No.
                  140758
Seq. ID
                  LIB25-061-Q1-E1-G9
Method
                  BLASTN
NCBI GI
                  g2656031
BLAST score
                  189
E value
                  1.0e-102
Match length
                  189
                  100
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MXC20
Seq. No.
                  140759
Seq. ID
                  LIB25-061-Q1-E1-H8
Method
                  BLASTX
NCBI GI
                  q4115387
BLAST score
                  497
E value
                  2.0e-50
                  98
Match length
% identity
                  (AC005967) putative NADP-dependent
NCBI Description
                  glyceraldehyde-3-phosphate dehydrogenase [Arabidopsis
                  thaliana]
                  140760
Seq. No.
Seq. ID
                  LIB25-062-Q1-E1-B2
Method
                  BLASTN
                  q3738275
NCBI GI
BLAST score
                  160
E value
                  1.0e-84
Match length
                  376
                  98
% identity
                  Arabidopsis thaliana chromosome II BAC F17A22 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  140761
Seq. No.
                  LIB25-062-Q1-E1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g136636
                  315
BLAST score
                  5.0e-29
E value
Match length
                  60
% identity
                  UBIQUITIN-CONJUGATING ENZYME E2-17 KD 1 (UBIQUITIN-PROTEIN
NCBI Description
                  LIGASE 1) (UBIQUITIN CARRIER PROTEIN 1)
                  >gi_1076424_pir__S43781 ubiquitin-conjugating enzyme UBC1 -
```

E value

4.0e-67

Arabidopsis thaliana >gi\_442594\_pdb\_1AAK\_ Ubiquitin Conjugating Enzyme (E.C.6.3.2.19) >gi\_2981894\_pdb\_2AAK\_ Ubiquitin Conjugating Enzyme From Arabidopsis Thaliana >gi\_166924 (M62721) ubiquitin carrier protein [Arabidopsis thaliana] >gi\_431260 (L19351) ubiquitin conjugating enzyme [Arabidopsis thaliana]

```
140762
.Seq. No.
               LIB25-062-Q1-E1-C10
Seq. ID
                   BLASTN
Method
NCBI GI
                   g2760168
BLAST score
                   40
E value
                   3.0e-13
Match length
                   68
% identity
                   90
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MEE6, complete sequence [Arabidopsis thaliana]
                   140763
Seq. No.
`Seq. ID
                   LIB25-062-Q1-E1-C2
                   BLASTN
Method
                   q4185128
NCBI GI
BLAST score
                   174
E value
                   4.0e-93
                   369
Match length
% identity
                   Arabidopsis thaliana chromosome II P1 MSF3 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140764
Seq. No.
Seq. ID
                   LIB25-062-Q1-E1-C3
                   BLASTX
Method
                   q3021506
NCBI GI
BLAST score
                   270
                   9.0e-24
E value
Match length
                   98
% identity
                   (X96727) isocitrate dehydrogenase (NAD+) [Nicotiana
NCBI Description
                   tabacum]
                   140765
Seq. No.
Seq. ID
                   LIB25-062-Q1-E1-C4
Method
                   BLASTX
NCBI GI
                   q4586248
BLAST score
                   617
                   2.0e-64
E value
Match length
                   127
% identity
                   (AL049640) growth factor like protein [Arabidopsis
NCBI Description
                   thaliana]
                   140766
Seq. No.
Seq. ID
                   LIB25-062-Q1-E1-D4
Method
                   BLASTX
NCBI GI
                   g4455323
BLAST score
                   640
```

% identity

```
130
Match length
% identity
                   100
                   (AL035525) aminopeptidase-like protein [Arabidopsis
NCBI Description
                   thaliana]
                   140767
Seq. No.
Seq. ID
                   LIB25-062-Q1-E1-D8
Method
                   BLASTN
NCBI GI
                  g1149572
BLAST score
                   364
E value
                   0.0e + 00
Match length
                   364
                   100
% identity
                  A.thaliana rpl21 mRNA for chloroplast ribosomal large
NCBI Description
                   subunit protein L21
Seq. No.
                   140768
                   LIB25-062-Q1-E1-E3
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4263694
                   227
BLAST score
E value
                   1.0e-124
Match length
                   383
                   100
% identity
                  Arabidopsis thaliana chromosome II BAC F22D22 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140769
Seq. No.
Seq. ID
                   LIB25-062-Q1-E1-F8
Method
                   BLASTN
NCBI GI
                   g2245031
BLAST score
                   299
E value
                   1.0e-167
Match length
                   394
                   98
% identity
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
                   fragment No
Seq. No.
                   140770
Seq. ID
                   LIB25-062-Q1-E1-H1
Method
                   BLASTN
NCBI GI
                   g4733952
BLAST score
                   156
E value
                   2.0e-82
                  156
Match length
                   100
% identity
NCBI Description
                   Arabidopsis thaliana chromosome I BAC F23H11 genomic
                   sequence, complete sequence
                   140771
Seq. No.
Seq. ID
                   LIB25-062-Q1-E1-H2
Method
                   BLASTX
NCBI GI
                   q2191137
BLAST score
                   643
E value
                   2.0e-67
Match length
                   123
```

```
(AF007269) similar to the GDSL family of lipolytic enzymes
NCBI Description
                   [Arabidopsis thaliana]
                   140772
Seq. No.
                  LIB25-062-Q1-E1-H3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1212812
BLAST score
                  98
E value .
                   9.0e-10
                33
Match length
% identity
                  88
                   (X95875) seed imbibition protein [Cicer arietinum]
NCBI Description
Seq. No.
                  140773
Seq. ID
                  LIB25-062-Q1-E1-H5
Method
                  BLASTX
NCBI GI
                  g4539333
BLAST score
                  319
E value
                   2.0e-29
Match length
                  119
% identity
                   58
NCBI Description
                   (AL035539) putative amino acid transport protein
                   [Arabidopsis thaliana]
Seq. No.
                  140774
Seq. ID
                  LIB25-063-Q1-E1-F11
Method
                  BLASTX
NCBI GI
                  q3668173
BLAST score
                   629
E value
                  7.0e-66
Match length
                  132
                  93
% identity
NCBI Description
                   (AB006777) vegetative storage protein [Arabidopsis
                  thaliana]
Seq. No.
                  140775
Seq. ID
                  LIB25-063-Q1-E1-H9
Method
                  BLASTN
NCBI GI
                  q4678705
BLAST score
                  254
E value
                  1.0e-141
Match length
                  350
                  97
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F10N7
                   (ESSA project)
Seq. No.
                  140776
Seq. ID
                  LIB25-064-Q1-E1-B6
Method
                  BLASTN
NCBI GI
                  q2351062
BLAST score
                  226
E value
                  1.0e-124
Match length
                  363
                  100
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
```

MAH20, complete sequence [Arabidopsis thaliana]

NCBI GI

```
140777
Seq. No.
                  LIB25-064-Q1-E1-C6
Seq. ID
                  BLASTX
Method
NCBI GI
                   g4586109
                  207
BLAST score
                   2.0e-16
E value
                   46
Match length
% identity
                   78
                   (AL049638) putative protein [Arabidopsis thaliana]
NCBI - Description
                   140778
Seq. No.
                   LIB25-064-Q1-E1-E5
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2564049
BLAST score
                   132
E value
                   5.0e-68
Match length
                   261
% identity
                  -86
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MLE2, complete sequence [Arabidopsis thaliana]
                   140779
Seq. No.
                   LIB25-064-Q1-E1-F5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2282473
BLAST score
                   332
E value
                   4.0e-31
Match length
                   119
% identity
                   50
                   (AB005911) xanthine dehydrogenase [Bombyx mori]
NCBI Description
                   140780
Seq. No.
                   LIB25-065-Q1-E1-A4
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3241925
BLAST score
                   116
E value
                   2.0e-58
Match length
                   370
% identity
                   100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MOK9, complete sequence [Arabidopsis thaliana]
                   140781
Seq. No.
                   LIB25-065-Q1-E1-B11
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4757407
BLAST score
                   65
                   1.0e-28
E value
                   81
Match length
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MQD19, complete sequence
Seq. No.
                   140782
                   LIB25-065-Q1-E1-C6
Seq. ID
Method
                   BLASTX
```

g4406820

Match length

```
BLAST score
                   468
                   6.0e-47
E value
Match length
                   89
                   100
% identity
                   (AC006201) putative ras superfamily member [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   140783
Seq. ID
                  LIB25-065-Q1-E1-D5
Method
                   BLASTN
NCBI GI
                   g4539378
                   284
BLAST score
E value
                   1.0e-158
Match length
                   412
                   99
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F28A21
NCBI Description
                   (ESSA project)
                   140784
Seq. No.
Seq. ID
                   LIB25-065-Q1-E1-G10
Method
                   BLASTX
NCBI GI
                   q4544390
BLAST score
                   600
E value
                   2.0e-62
Match length
                   137
% identity
                   (AC007047) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   140785
Seq. No.
                   LIB25-065-Q1-E1-G11
Seq. ID
Method
                   BLASTN
NCBI GI
                   q3128143
BLAST score
                   168
                   1.0e-89
E value
Match length
                   226
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MTI20, complete sequence [Arabidopsis thaliana]
                   140786
Seq. No.
Seq. ID
                   LIB25-065-Q1-E1-G3
Method
                   BLASTN
NCBI GI
                   g2827038
BLAST score
                   190
E value
                   1.0e-102
Match length
                   360
 % identity
                   100
                   Arabidopsis thaliana chloroplast processing enzyme (CPE)
NCBI Description
                   gene, complete cds
                   140787
Seq. No.
Seq. ID
                   LIB25-065-Q1-E1-H8
Method
                   BLASTN
NCBI GI
                   g2564044
BLAST score
                   119
E value
                   3.0e-60
```

% identity

```
% identity
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                   K19P17, complete sequence [Arabidopsis thaliana]
                   140788
Seq. No.
Seq. ID
                   LIB25-066-Q1-E1-B12
Method
                   BLASTX
NCBI GI
                   g2618691
                   292
BLAST score
                   1.0e-26
E value
Match length
                   87
                   69
% identity
                   (AC002510) putative chloroplast envelope Ca2+-ATPase
NCBI Description
                   [Arabidopsis thaliana]
                   140789
Seq. No.
                   LIB25-066-Q1-E1-C8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3024434
                   455
BLAST score
                   2.0e-45
E value
Match length
                   111
                   84
% identity
                   26S PROTEASE REGULATORY SUBUNIT 6A HOMOLOG (TAT-BINDING
NCBI Description
                   PROTEIN HOMOLOG 1) (TBP-1) >gi_2564337_dbj_BAA22951_(D88663) Tat binding protein 1 [Brassica rapa]
Seq. No.
                   140790
                   LIB25-066-Q1-E1-C9
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2494106
BLAST score
                   121
E value
                   6.0e-62
Match length
                   121 -
% identity
                   100
                   Arabidopsis thaliana chromosome 1 YAC YUP8H12R sequence,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   140791
Seq. No.
Seq. ID
                   LIB25-066-Q1-E1-D3
Method
                   BLASTN
NCBI GI
                   g3449325
BLAST score
                   103
E value
                   4.0e-51
                   163
Match length
% identity
                   91
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K16H17, complete sequence [Arabidopsis thaliana]
                   140792
Seq. No.
                   LIB25-066-Q1-E1-D6
Seq. ID
Method
                   BLASTX
                   g1172977
NCBI GI
                   625
BLAST score
                   2.0e-65
E value
                   132
Match length
```

```
NCBI Description 60S RIBOSOMAL PROTEIN L18 >gi 606970 (U15741) cytoplasmic
                   ribosomal protein L18 [Arabidopsis thaliana]
                   140793
Seq. No.
Seq. ID
                   LIB25-066-Q1-E1-D8
                   BLASTX
Method
NCBI GI
                   g4185505
BLAST score
                   443
                   5.0e-44
E value
Match length
                   109
                   79
% identity
                   (AF101038) nonspecific lipid-transfer protein precursor
NCBI Description
                   [Brassica napus]
                   140794
Seq. No.
                   LIB25-066-Q1-E1-E11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1769905
BLAST score
                   437
                   2.0e-43
E value
                   123
Match length
% identity
                   69
                   (X98108) 23 kDa polypeptide of oxygen-evolving comlex (OEC)
NCBI Description
                   [Arabidopsis thaliana]
                   140795
Seq. No.
Seq. ID
                   LIB25-066-Q1-E1-E3
Method
                   BLASTN
NCBI GI
                   g2494106
BLAST score
                   213
E value
                   1.0e-116
                   213
Match length
                   100
% identity
                   Arabidopsis thaliana chromosome 1 YAC YUP8H12R sequence,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   140796
Seq. No.
                   LIB25-066-Q1-E1-E5
Seq. ID
Method
                   BLASTX
NCBI GI
                   q4567265
BLAST score
                   496
                   3.0e-50
E value
                   96
Match length
                   100
% identity
                   (AC006841) putative kinesin protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140797
Seq. ID
                   LIB25-066-Q1-E1-F4
Method
                   BLASTN
NCBI GI
                   g4263694
BLAST score
                   88
E value
                   3.0e-42
Match length
                   132
                   92
% identity:
                   Arabidopsis thaliana chromosome II BAC F22D22 genomic
NCBI Description
```

sequence, complete sequence [Arabidopsis thaliana]

% identity

```
140798
Seq. No.
Seq. ID
                  LIB25-066-Q1-E1-F8
Method
                  BLASTX
NCBI GI
                  g3135252
BLAST score
                  479
E value
                  3.0e-48
                  113
Match length
% identity
NCBI Description
                   (AC003058) hypothetical protein [Arabidopsis thaliana]
                  >qi 3176720 (AC002392) hypothetical protein [Arabidopsis
                  thaliana]
                  140799
Seq. No.
Seq. ID
                  LIB25-066-Q1-E1-F9
Method
                  BLASTX
NCBI GI
                  g2506788
BLAST score
                  168
E value
                  8.0e-12
Match length
                  81
                  37
% identity
                  GERANYLGERANYL TRANSFERASE TYPE II BETA SUBUNIT (RAB
NCBI Description
                  GERANYLGERANYLTRANSFERASE BETA SUBUNIT) (RAB
                  GERANYL-GERANYLTRANSFERASE BETA SUBUNIT) (RAB GG
                  TRANSFERASE) (RAB GGTASE) >gi 1332508 emb CAA66638
                  (X98001) geranylgeranyl transferase II [Homo sapiens]
                  140800
Seq. No.
Seq. ID
                  LIB25-066-Q1-E1-H2
Method
                  BLASTX
NCBI GI
                  g4008010
BLAST score
                  174
                  7.0e-13
E value
                  78
Match length
% identity
                   (AF084036) receptor-like protein kinase [Arabidopsis
NCBI Description
                  thaliana]
                  140801
Seq. No.
Seq. ID
                  LIB25-066-Q1-E1-H6
Method
                  BLASTX
                  g2129918
NCBI GI
                  146
BLAST score
                  2.0e-09
E value
Match length
                  95
% identity
                  42
                  BPF-1 protein - parsley >gi_396197_emb_CAA48413 (X68337)
NCBI Description
                  BPF-1 [Petroselinum crispum] >gi 441310 emb CAA44518_
                  (X62653) BPF-1 [Petroselinum crispum]
                  140802
Seq. No.
                  LIB25-067-Q1-E1-A1
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4691223
BLAST score
                  186
E value
                  1.0e-100
Match length
                  341
```

```
NCBI Description Arabidopsis thaliana DNA chromosome 3, BAC clone F4F15
                    (ESSA project)
                    140803
 Seq. No.
                    LIB25-067-Q1-E1-A3
 Seq. ID
 Method
                    BLASTN
 NCBI GI
                    g4165340
 BLAST score
                    380
E value
                    0.0e+00.
 Match length
                    380
 % identity
                    100
                    Arabidopsis thaliana chromosome I BAC F11M15 genomic
 NCBI Description
                    sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    140804
                    LIB25-067-Q1-E1-A4
 Seq. ID
                    BLASTX
 Method
 NCBI GI
                    q2494130
 BLAST score
                    530
 E value
                    3.0e-54
                    102
 Match length
                    99
 % identity
 NCBI Description
                    (AC002376) Contains similarity to Glycine SRC2
                    (gb_AB000130). [Arabidopsis thaliana]
                    140805
 Seq. No.
                    LIB25-067-Q1-E1-C2
 Seq. ID
                    BLASTX
 Method
                    g4262147
 NCBI GI
 BLAST score
                    316
 E value
                    3.0e-29
                    124
 Match length
                    52
 % identity
                    (AC005275) putative homolog of transport inhibitor response
 NCBI Description
                    1 [Arabidopsis thaliana]
 Seq. No.
                    140806
                    LIB25-067-Q1-E1-C9
 Seq. ID
                    BLASTX
 Method
 NCBI GI
                    g2578818
 BLAST score
                    169
                    6.0e-12
 E value
 Match length
                    116
 % identity
 NCBI Description
                    (AB000121) TBPIP [Mus musculus]
 Seq. No.
                    140807
 Seq. ID
                    LIB25-067-Q1-E1-E11
 Method
                    BLASTX
 NCBI GI
                    q2980770
 BLAST score
                    183
                    1.0e-13
 E value
 Match length
                    132
 % identity
                    (AL022198) putative protein kinase [Arabidopsis thaliana]
 NCBI Description
```

140808

Seq. No.

BLASTN

```
Seq. ID
                   LIB25-067-Q1-E1-E3
Method
                   BLASTX
NCBI GI
                   g3005601
BLAST score
                   124
E value
                   1.0e-06
Match length
                   127
% identity
NCBI Description
                   (AF052433) katanin p80 subunit [Strongylocentrotus
                  purpuratus]
Seq. No.
                   140809
Seq. ID
                   LIB25-067-Q1-E1-E7
Method
                   BLASTX
NCBI GI
                   g2632061
BLAST score
                   565
E value
                   2.0e-58
Match length
                   106
% identity
                   100
                   (AJ002597) membrane-associated salt-inducible protein like
NCBI Description
                   [Arabidopsis thaliana]
                   140810
Seq. No.
                   LIB25-067-Q1-E1-F5
Seq. ID
Method
                   BLASTN
NCBI GI
                   q4587641
                                                   \cdot, \cdot, \cdot,
BLAST score
                   401
E value
                   0.0e + 00
Match length
                   401
% identity
                   100
NCBI Description
                  Arabidopsis thaliana chromosome I BAC F20D21 genomic
                   sequence, complete sequence
Seq. No.
                   140811
                   LIB25-067-Q1-E1-G7
Seq. ID
Method
                   BLASTX
NCBI GI
                   q4539330
BLAST score
                   695
E value
                   1.0e-73
Match length
                   133
% identity
                   100
                   (AL035679) putative receptor-like protein kinase (fragment)
NCBI Description
                   [Arabidopsis thaliana]
                   140812
Seq. No.
                   LIB25-067-Q1-E1-H2
Seq. ID
                   BLASTN
Method
                   q4580454
NCBI GI
BLAST score
                   389
E value
                   0.0e+00
                   389
Match length
                   100
% identity
                  Arabidopsis thaliana chromosome II BAC T2G17 genomic
NCBI Description
                   sequence, complete sequence
Seq. No.
                   140813
                   LIB25-067-Q1-E1-H3
Seq. ID
```

NCBI GI

q468770

```
NCBI GI
                  g3319339
BLAST score
                   386
                  0.0e+00
E value
                  386
Match length
                   100
% identity
NCBI Description
                  Arabidopsis thaliana BAC F9D12
Seq. No.
                  140814
                  LIB25-067-Q1-E1-H5
Seq. ID
Method .
                  BLASTX
NCBI GI
                  q3287270
                   471
BLAST score
E value
                   2.0e-47
Match length
                   128
                   74
% identity
                   (Y09533) involved in starch metabalism [Solanum tuberosum]
NCBI Description
Seq. No.
                   140815
Seq. ID
                  LIB25-067-Q1-E1-H7
Method
                  BLASTX
                   q2129742
NCBI GI
BLAST score
                   228
                   4.0e-19
E value
                   48
Match length
% identity
                   83
                   stress-induced protein OZI1 precursor - Arabidopsis
NCBI Description
                   thaliana >qi 790583 (U20347) mRNA corresponding to this
                   gene accumulates in response to ozone stress and pathogen
                   (bacterial) infection; putative pathogenesis-related
                   protein [Arabidopsis thaliana] >gi_2252869 (AF013294) No
                  definition line found [Arabidopsis thaliana]
                   140816
Seq. No.
                  LIB25-068-Q1-E1-C10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2760084
BLAST score
                   252.
                   1.0e-21
E value
                   70
Match length
% identity
                   42
                  (Y16045) leucine-rich repeat protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   140817
                  LIB25-068-Q1-E1-C7
Seq. ID
Method-
                   BLASTN
NCBI GI
                   g3241920
BLAST score
                   289
                   1.0e-161
E value
                   394
Match length
                   91
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MAE1, complete sequence [Arabidopsis thaliana]
                   140818
Seq. No.
                   LIB25-068-Q1-E1-C8
Seq. ID
Method
                   BLASTN
```

Match length

```
BLAST score
E value
                  9.0e-77
Match length
                  165
% identity
                   66
NCBI Description
                  A.thaliana genes for chloroplast ribosomal protein L12 and
                  tRNA-Pro
Seq. No.
                  140819
Seq. ID
                  LIB25-068-Q1-E1-D11
Method
                  BLASTN
NCBI GI
                  q4757392
BLAST score
                  32
E value
                  1.0e-08
Match length
                  92
% identity
                  84
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, TAC clone:
                  K14A17, complete sequence
                  140820
Seq. No.
                  LIB25-068-Q1-E1-D3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3789706
BLAST score
                  179
E value
                  5.0e-96
Match length
                  404
                  100
% identity
                  Arabidopsis thaliana chromosome 1 BAC F15K9 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  140821
Seq. No.
                  LIB25-068-Q1-E1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4454018
BLAST score
                  685
E value
                  2.0e-72
Match length
                  134
% identity
NCBI Description
                  (AL035396) SRG1-like protein [Arabidopsis thaliana]
                  140822
Seq. No.
Seq. ID
                  LIB25-068-Q1-E1-E5
Method
                  BLASTN
NCBI GI
                  g2827698
BLAST score
                  244
E value
                  1.0e-135
Match length
                  413
% identity
                  100
                  Arabidopsis thaliana DNA chromosome 5, BAC clone F6H11
NCBI Description
                  (ESSAII project)
                  140823
Seq. No.
Seq. ID
                  LIB25-068-Q1-E1-E8
Method
                  BLASTX
NCBI GI
                  g1169278
BLAST score
                  190
E value
                  6.0e-15
```

```
% identity
                  DEHYDRIN ERD14 >gi 556474 dbj BAA04569 (D17715) ERD14
NCBI Description
                  protein [Arabidopsis thaliana]
                  140824
Seq. No.
Seq. ID
                  LIB25-068-Q1-E1-F6
Method
                  BLASTN
NCBI GI
                  q4589444
BLAST score
                 81
                  1.0e-37
E value
                  96
Match length
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MWF20, complete sequence
Seq. No.
                  140825
Seq. ID
                  LIB25-068-Q1-E1-H7
Method
                  BLASTN
NCBI GI
                  g437313
BLAST score
                  167
E value
                  3.0e-89
Match length
                  167
% identity
                  54
                  Arabidopsis thaliana DNA sequence with repeats
NCBI Description
                  140826
Seq. No.
Seq. ID
                  LIB25-069-Q1-E1-A3
Method
                  BLASTX
NCBI GI
                  g2493144
BLAST score
                  331
                  3.0e - 31
E value
Match length
                  82
                  52
% identity
                  VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT (V-ATPASE
NCBI Description
                  16 KD PROTEOLIPID SUBUNIT) >gi 2118221_pir__S60132
                  H+-transporting ATPase (EC 3.6.1.35), vacuolar, 16K chain
                  (clone AVA-P2) - Arabidopsis thaliana >gi_926937 (L44585)
                  vacuolar H+-pumping ATPase 16 kDa proteolipid [Arabidopsis
                  thaliana]
Seq. No.
                  140827
Seq. ID
                  LIB25-069-Q1-E1-B12
Method
                  BLASTN
NCBI GE
                  g4572664
BLAST score
                  301
E value
                  1.0e-169
Match length
                  411
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC F25P17 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  140828
Seq. ID
                  LIB25-069-Q1-E1-B5
                  BLASTN
Method
                  g3869074
NCBI GI
BLAST score
                  61
E value
                  4.0e-26
```

```
130
Match length
                   96
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MMI9, complete sequence [Arabidopsis thaliana]
                  140829
Seq. No.
Seq. ID
                  LIB25-069-Q1-E1-C10
Method
                  BLASTX
                  g4512651
NCBI GI
                  285
BLAST score
E value
                   2.0e-25
                  123
Match length
% identity
                   (AC007048) putative tyrosine transaminase [Arabidopsis
NCBI Description
                  thaliana]
                   140830
Seq. No.
                  LIB25-069-Q1-E1-C12
Seq. ID
Method
                  BLASTX
NCBI GI
                   g4544427
BLAST score
                   438
E value
                   2.0e-43
Match length
                  109
% identity
                   74
                   (AC006955), putative ferredoxin-thioredoxin reductase
NCBI Description
                   [Arabidopsis thaliana]
                   140831
Seq. No.
Seq. ID
                  LIB25-069-Q1-E1-D4
Method
                  BLASTX
NCBI GI
                   g4490341
BLAST score
                   416
E value
                   3.0e-41
Match length
                  83
% identity
NCBI Description
                   (AL035656) putative protein [Arabidopsis thaliana]
                   140832
Seq. No.
Seq. ID
                  LIB25-069-Q1-E1-E9
Method
                  BLASTN
NCBI GI
                   q2264311
BLAST score
                   247
E value
                   1.0e-136
Match length
                   303
                   97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MLN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140833
Seq. ID
                   LIB25-069-Q1-E1-F3
Method
                  BLASTX
NCBI GI
                   q4206122
BLAST score
                   414
E value
                   1.0e-40
Match length
                   141
                   59
% identity
                   (AF097667) protein phosphatase 2C homolog [Mesembryanthemum
NCBI Description
```

## crystallinum]

```
140834
Seq. No.
Seq. IÌ
                  LIB25-069-Q1-E1-F4
Method
                  BLASTX
NCBI GI
                  g1076663
BLAST score
                  579
E value
                  5.0e-60
Match length
                  129 .
                  87
% identity
                  H+-transporting ATPase (EC 3.6.1.35) (clone PHA2) - potato
NCBI Description
                  >gi 435001 emb CAA54045 (X76535) H(+)-transporting ATPase
                  [Solanum tuberosum]
Seq. No.
                  140835
                  LIB25-069-Q1-E1-F6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2618603
BLAST score
                  33
E value
                  2.0e-09
                  97
Match length
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MSL3, complete sequence [Arabidopsis thaliana]
                  140836
Seq. No.
Seq. ID
                  LIB25-069-01-E1-G11
Method
                  BLASTN
NCBI GI
                  g881520
BLAST score
                  108
E value
                  6.0e-54
Match length
                  219
                  88
% identity
NCBI Description
                  Arabidopsis thaliana hexokinase 1 (AtHXK1) mRNA, complete
Seq. No.
                  140837
Seq. ID
                  LIB25-069-01-E1-G2
Method
                  BLASTX
NCBI GI
                  a4580473
BLAST score
                  472
E value
                  2.0e-47
Match length
                  104
% identity
                  (AC006081) putative pathogenesis-related protein; similar
NCBI Description
                  to PR-1 [Arabidopsis thaliana]
Seq. No.
                  140838
Seq. ID
                  LIB25-069-Q1-E1-H3
Method
                  BLASTN
                  q4510360
NCBI GI
BLAST score
                  172
E value
                  5.0e-92
Match length
                  284
                  90
% identity
                  Arabidopsis thaliana chromosome II BAC F11F19 genomic
NCBI Description
                  sequence, complete sequence
```

```
140839
Seq. No.
Seq. ID
                  LIB25-069-Q1-E1-H6
Method
                  BLASTX
NCBI GI
                  g4539343
BLAST score
                  313
                   9.0e-29
E value
                  106
Match length
% identity
                  58
                   (AL035539) putative protein [Arabidopsis thaliana]
NCBI Description `
                  140840
Seq. No.
                  LIB25-070-Q1-E1-A3
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4539309
BLAST score
                  85
                  2.0e-40
E value
                  121
Match length
                   93
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F19H22
NCBI Description
                   (ESSA project)
                  140841
Seq. No.
                  LIB25-070-Q1-E1-A5
Seq. ID
Method
                  BLASTN
                   g4589419
NCBI GI
BLAST score
                   360
                   0.0e + 00
E value
                   360
Match length
                   100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K2I5, complete sequence
                   140842
Seq. No.
                   LIB25-070-Q1-E1-B4
Seq. ID
                   BLASTX
Method
                   g2459417
NCBI GI
BLAST score
                   378
                   2.0e-36
E value
                   85
Match length
                   84
% identity
                   (ACO02332) putative pre-mRNA splicing factor PRP19
NCBI Description
                   [Arabidopsis thaliana]
                   140843
Seq. No.
                   LIB25-070-Q1-E1-C5
Seq. ID
                   BLASTN
Method
                   g457715
NCBI GI
BLAST score
                   301
                   1.0e-169
E value
                   377
Match length
                   100
% identity
                  A.thaliana CXc750 gene
NCBI Description
                   140844
Seq. No.
                   LIB25-070-Q1-E1-D3
Seq. ID
                   BLASTX
```

NCBI GI

BLASTX

g2341034

```
g136636
NCBI GI
BLAST score
                  375
E value
                  4.0e-36
Match length
                  68
% identity
                  100
NCBI Description
                  UBIQUITIN-CONJUGATING ENZYME E2-17 KD 1 (UBIQUITIN-PROTEIN
                  LIGASE 1) (UBIQUITIN CARRIER PROTEIN 1)
                  >gi 1076424_pir__S43781 ubiquitin-conjugating enzyme UBC1 -
                  Arabidopsis thaliana >gi_442594 pdb 1AAK Ubiquitin
                  Conjugating Enzyme (E.C.6.3.2.19) >gi_2981894_pdb_2AAK_
                  Ubiquitin Conjugating Enzyme From Arabidopsis Thaliana
                  >gi 166924 (M62721) ubiquitin carrier protein [Arabidopsis
                  thaliana] >gi 431260 (L19351) ubiquitin conjugating enzyme
                  [Arabidopsis thaliana]
Seq. No.
                  140845
                  LIB25-070-Q1-E1-F7
Seq. ID
Method
                  BLASTN
                  g4680765
NCBI GI
                  327
BLAST score
                  0.0e+00
E value
Match length
                  361
% identity
                  100
                  Arabidopsis thaliana BAC F14I23 from chromosome V near 69
NCBI Description
                  cM, complete sequence
Seq. No.
                  140846
Seq. ID
                  LIB25-071-Q1-E1-A10
Method
                  BLASTN
NCBI GI
                  g4467131
BLAST score
                  168
                  1.0e-89
E value
Match length
                  235
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F20M13
NCBI Description
                  (ESSA project)
Seq. No.
                  140847
Seq. ID
                  LIB25-071-Q1-E1-B12
Method
                  BLASTX
NCBI GI
                  g544424
BLAST score
                  204
E value
                  5.0e-16
Match length
                  39
% identity
                  97
                  GLYCINE-RICH RNA-BINDING PROTEIN 7 >gi 419755 pir S30147
NCBI Description
                  glycine-rich protein (clone AtGRP7) - Arabidopsis thaliana
                  >gi_16301_emb_CAA78711_ (Z14987) glycine rich protein
                  [Arabidopsis thaliana] >gi 166837 (L00648) RNA-binding
                  protein [Arabidopsis thaliana]
                  >gi 4567224 gb AAD23639.1 AC007119 5 (AC007119)
                  glycine-rich RNA binding protein 7 [Arabidopsis thaliana]
Seq. No.
                  140848
Seq. ID
                  LIB25-071-Q1-E1-B3
```

```
BLAST score
                   413
E value
                   1.0e-40
Match length
                  87
% identity
                   97
NCBI Description
                   (AC000104) F19P19.13 [Arabidopsis thaliana]
                   140849
Seq. No.
                   LIB25-071-Q1-E1-C6
Seq. ID
Method .
                   BLASTX
NCBI GI
                   g2275202
BLAST score
                   353
                   1.0e-33
E value
Match length
                   67
                   100
% identity
                   (AC002337) acyl-CoA synthetase isolog [Arabidopsis
NCBI Description
                   thaliana]
                   140850
Seq. No.
                   LIB25-071-Q1-E1-D1
Seq. ID
Method
                   BLASTN
                   g3821780
NCBI GI
BLAST score
                   36
E value
                   9.0e-11
                   36
Match length
                   100
% identity
                  Xenopus laevis cDNA clone 27A6-1
NCBI Description
Seq. No.
                   140851
Seq. ID
                  LIB25-071-Q1-E1-D12
Method
                   BLASTN
                   g4531433
NCBI GI
BLAST score
                   72
E value
                   2.0e-32
Match length
                   165
                   93
% identity
                  Arabidopsis thaliana chromosome II P1 MFL8 genomic
NCBI Description
                   sequence, complete sequence
                   140852
Seq. No.
                   LIB25-071-Q1-E1-E12
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3449315
BLAST score
                   220
                   1.0e-120
E value
                   368
Match length
                   99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K23L20, complete sequence [Arabidopsis thaliana]
                   140853
Seq. No.
Seq. ID
                   LIB25-071-Q1-E1-E7
Method
                   BLASTN
                   q4490291
NCBI GI
BLAST score
                   325
                   0.0e+00
E value
                   359
Match length
```

99

% identity

BLASTN

```
Arabidopsis thaliana DNA chromosome 4, BAC clone F17M5
NCBI Description
                  (ESSA project)
Seq. No.
                  140854
                  LIB25-071-Q1-E1-H6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2244783
                  393
BLAST score
E value
                  2.0e-38
                  102
Match length
% identity
                  82
                  (Z97335) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  140855
Seq. No.
                  LIB25-073-Q1-E1-A11
Seq. ID
Method
                  BLASTN
                  g4589438
NCBI GI
                  313
BLAST score
                  1.0e-176
E value
                  317
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MQJ2, complete sequence
Seq. No.
                  140856
Seq. ID
                  LIB25-073-Q1-E1-C10
Method
                  BLASTX
NCBI GI
                  q3461845
                  408
BLAST score
                  6.0e-40
E value
                  107
Match length
                  75
% identity
                  (AC005315) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  140857
Seq. No.
                  LIB25-073-Q1-E1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1814401
                  549
BLAST score
                  2.0e-56
E value
                  136
Match length
                  79
% identity
                   (U84888) phosphoglucomutase [Mesembryanthemum crystallinum]
NCBI Description
                  140858
Seq. No.
                  LIB25-073-Q1-E1-E11
Seq. ID
                  BLASTX
Method
                  g2262098
NCBI GI
                  704
BLAST score
                  1.0e-74
E value
Match length
                  136
% identity
                   100
                   (AC002343) HSP90 isolog [Arabidopsis thaliana]
NCBI Description
                  140859
Seq. No.
                  LIB25-073-Q1-E1-F2
Seq. ID
```

Seq. ID

```
q4519193
NCBI GI
BLAST score
                  170
                  1.0e-90
E value
Match length
                  424
% identity
                  46
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MDC11, complete sequence
                  140860
Seq. No.
                  LIB25-073-Q1-E1-H6
Seq. ID
Method
                  BLASTN
                  g2980757
NCBI GI
BLAST score
                  130
                  5.0e-67
E value
                  130
Match length
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F6I18
NCBI Description
                  (ESSAII project)
                  140861
Seq. No.
                  LIB25-074-Q1-E1-B12
Seq. ID
Method
                  BLASTX
                  g2499607
NCBI GI
                  499
BLAST score
                  1.0e-50
E value
Match length
                  96
                  98
% identity
                  MITOGEN-ACTIVATED PROTEIN KINASE HOMOLOG 3 (MAP KINASE 3)
NCBI Description
                  (ATMPK3) >gi_629544_pir__S40469 mitogen-activated protein
                  kinase 3 (EC 2.7.1.-) - Arabidopsis thaliana
                  >gi_457398_dbj_BAA04866_ (D21839) MAP kinase [Arabidopsis
                  thaliana]
                  140862
Seq. No.
                  LIB25-074-Q1-E1-C9
Seq. ID
                  BLASTX
Method
                  g1702986
NCBI GI
BLAST score
                  187
E value
                  1.0e-14
Match length
                  47
% identity
                  83
                  14-3-3-LIKE PROTEIN GF14 CHI >gi 1255987 (U09377) GF14chi
NCBI Description
                  isoform [Arabidopsis thaliana] >gi 1256534 (L09112) GF14
                  chi chain [Arabidopsis thaliana]
                  140863
Seq. No.
                  LIB25-074-Q1-E1-G10
Seq. ID
                  BLASTN
Method
                  g1931636
NCBI GI
BLAST score
                  341
                  0.0e+00
E value
Match length
                  353
                  99
% identity
                  Arabidopsis thaliana BAC T19D16 genomic sequence
NCBI Description
Seq. No.
                  140864
```

LIB25-074-Q1-E1-G3

NCBI GI

```
BLASTX
Method
NCBI GI
                  q4056425
BLAST score
                  171
                  3.0e-12
E value
Match length
                  45
% identity
                  71
                   (AC005322) ESTs gb H36249, gb AA59732 and gb AA651219 come
NCBI Description
                  from this gene. [Arabidopsis thaliana]
                  140865
Seq. No.
Seq. ID
                  LIB25-075-Q1-E1-A2
                  BLASTN
Method
                  g2281081
NCBI GI
BLAST score
                  181
                  2.0e-97
E value
Match length
                  237
                  97
% identity
                  Arabidopsis thaliana chromosome II BAC F18019 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  140866
Seq. No.
                  LIB25-075-Q1-E1-A5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2760169
                  140
BLAST score
                  5.0e-73
E value
                  241
Match length
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MFB13, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140867
                  LIB25-075-Q1-E1-A6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4262221
BLAST score
                  186
                  1.0e-100
E value
Match length
                  252
% identity
                  91
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F10A8 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140868
                  LIB25-075-Q1-E1-B6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2264310
BLAST score
                  252
                  1.0e-140
E value
                  252
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MKP11, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140869
                  LIB25-075-Q1-E1-C3
Seq. ID
Method
                  BLASTN
```

q2358139

BLAST score

```
BLAST score
                   202
E value
                   1.0e-110
Match length
                   266
% identity
                   99
                   Arabidopsis thaliana chromosome 1 YAC yUP8H12 complete
NCBI Description
                   sequence [Arabidopsis thaliana]
                   140870
Seq. No.
Seq. ID
                   LIB25-075-Q1-E1-C6
Method
                   BLASTX
NCBI GI
                   q1362007
BLAST score
                   423
E value
                   4.0e-42
Match length
                   79
% identity
                   100
                   thioglucosidase (EC 3.2.3.1) - Arabidopsis thaliana
NCBI Description
                   >gi_871992_emb_CAA55787_ (X79195) thioglucosidase
                   [Arabidopsis thaliana]
Seq. No.
                   140871
                  LIB25-075-Q1-E1-D1
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2832685
BLAST score
                   381
E value
                   4.0e-37
Match length
                   87
% identity
                   87
                   (AL021712) putative protein [Arabidopsis thaliana]
NCBI Description
                   140872
Seq. No.
Seq. ID
                   LIB25-075-Q1-E1-D2
Method
                   BLASTX
                   g4586108
NCBI GI
BLAST score
                   328
                   6.0e-31
E value
Match length
                   82
% identity
                   (AL049638) putative transport protein [Arabidopsis
NCBI Description
                   thaliana]
                   140873
Seq. No.
Seq. ID
                   LIB25-075-Q1-E1-E1
Method
                   BLASTX
                   q1076442
NCBI GI
                   60
BLAST score
                   9.0e-15
E value
Match length
                   57
% identity
NCBI Description
                  beta-glucosidase (EC 3.2.1.21) - rape
                   >gi_757740_emb CAA57913_ (X82577) beta-glucosidase
                   [Brassica napus]
Seq. No.
                   140874 -
                   LIB25-075-Q1-E1-E5
Seq. ID
                  BLASTN
Method
                   q3047100
NCBI GI
```

```
1.0e-107
E value
Match length
                  256
                  98
% identity
                  Arabidopsis thaliana BAC F6N23
NCBI Description
Seq. No.
                  140875
                  LIB25-075-Q1-E1-F3
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2828185
                  148
BLAST score
E value
                   9.0e-78
                  265
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUD21, complete sequence [Arabidopsis thaliana]
                  140876
Seq. No.
                  LIB25-075-Q1-E1-G1
Seq. ID
                  BLASTN
Method
                  q2564044
NCBI GI
                   140
BLAST score
                   5.0e-73
E value
Match length
                  267
                   99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K19P17, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140877
                  LIB25-075-Q1-E1-G2
Seq. ID
                  BLASTX
Method
                   q416758
NCBI GI
                   150
BLAST score
                   5.0e-10
E value
Match length
                   69
                   48
% identity
                  SERINE CARBOXYPEPTIDASE PRECURSOR >gi 166674 (M81130)
NCBI Description
                   carboxypeptidase Y-like protein [Arabidopsis thaliana]
                   >qi 445120 prf 1908426A carboxypeptidase Y [Arabidopsis
                   thaliana]
                   140878
Seq. No.
                   LIB25-075-Q1-E1-G3
Seq. ID
                   BLASTX
Method
NCBI GI
                   q2454182
                   403
BLAST score
                   1.0e-39
E value
Match length
                   86
% identity
                   (U80185) pyruvate dehydrogenase El alpha subunit
NCBI Description
                   [Arabidopsis thaliana]
                   140879
Seq. No.
                   LIB25-076-Q1-E1-A10
Seq. ID
                   BLASTN
Method
NCBI GI
                   q2760165
                   318
BLAST score
```

1.0e-179

E value

```
360
Match length
                   66
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MAC9, complete sequence [Arabidopsis thaliana]
                   140880
Seq. No.
                   LIB25-076-Q1-E1-B5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2506443
BLAST score
                   135
E value
                   4.0e-43
Match length
                   119
                   78
% identity
                   GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE A PRECURSOR,
NCBI Description
                   CHLOROPLAST >gi 2117520 pir JQ1285
                   glyceraldehyde-3-phosphate dehydrogenase (NADP+)
                   (phosphorylating) (EC 1.2.1.13) A precursor, chloroplast -
                   Arabidopsis thaliana >gi_166704 (M64117) glyceraldehyde
                   3-phosphate dehydrogenase [Arabidopsis thaliana] >gi_1402885_emb_CAA66816_ (X98130)
                   glyceraldehyde-3-phosphate dehydrogenase (NADP+)
                   (phosphorylating) [Arabidopsis thaliana]
Seq. No.
                   140881
                   LIB25-076-Q1-E1-C11
Seq. ID
                   BLASTX
Method.
NCBI. GI
                   g4415907
BLAST score
                   583
                   2.0e-60
E value
Match length
                   115
                   99
% identity
                   (AC006282) 60S ribosomal protein L24 [Arabidopsis thaliana]
NCBI Description
                   >gi_4581159_gb_AAD24643.1_AC006919_21 (AC006919) putative
                   60S ribosomal protein L24 [Arabidopsis thaliana]
                   140882
Seq. No.
                   LIB25-076-Q1-E1-E12
Seq. ID
Method
                   BLASTN
                   g4309719
NCBI GI
                   130
BLAST score
                   2.0e-67
E value
                   130
Match length
                   100
% identity
                   Arabidopsis thaliana chromosome II BAC T30D6 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140883
Seq. No.
                   LIB25-076-Q1-E1-E8
Seq. ID
Method
                   BLASTX
NCBI GI
                   q3152940
BLAST score
                   201
                   9.0e-16
E value
                   88
Match length
% identity
                   (AF065483) sorting nexin 1 [Homo sapiens]
NCBI Description
```

140884

Seq. No.

**BLASTX** 

```
LIB25-076-Q1-E1-H11
Seq. ID
                  BLASTN
Method
                  g2392894
NCBI GI
BLAST score
                  125
E value
                   5.0e-64
                  125
Match length
                   100
% identity
                  Arabidopsis thaliana brassinosteroid insensitive 1 (BRI1)
NCBI Description
                  gene, complete cds
                   140885
Seq. No.
                   LIB25-077-Q1-E1-B12
Seq. ID
                   BLASTN
Method
NCBI GI
                   g4159704
                   405
BLAST score
                   0.0e + 00
E value
                   405
Match length
                   100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MCB17, complete sequence
                   140886
Seq. No.
                   LIB25-077-Q1-E1-B5
Seq. ID
                   BLASTN
Method
                   g4185120
NCBI GI
BLAST score
                   33
                   5.0e-09
E value
                   352
Match length
                   81
% identity
                  Arabidopsis thaliana chromosome 1 BAC F5F19 sequence,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
Seq. No.
                   140887
                   LIB25-077-Q1-E1-C11
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4662609
BLAST score
                   76
E value
                   1.0e-34
                   247
Match length
% identity
                   Genomic sequence for Arabidopsis thaliana BAC F10A5,
NCBI Description
                   complete sequence
                   140888
Seq. No.
                   LIB25-077-Q1-E1-C8
Seq. ID
                   BLASTN
Method
                   g4589421
NCBI GI
BLAST score
                   351
                   0.0e + 00
E value
Match length
                   359
                   99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, TAC clone:
NCBI Description
                   K5K13, complete sequence
                   140889
Seq. No.
                   LIB25-077-Q1-E1-D9
Seq. ID
```

Seq. ID

```
g1708236
NCBI GI
                   506
BLAST score
E value
                   2.0e-51
                   99
Match length
                   100
% identity
                   HYDROXYMETHYLGLUTARYL-COA SYNTHASE (HMG-COA SYNTHASE)
NCBI Description
                   (3-HYDROXY-3-METHYLGLUTARYL COENZYME A SYNTHASE)
                   >gi_2129617_pir__JC4567 hydroxymethylglutaryl-CoA synthase
                   (EC 4.1.3.5) - Arabidopsis thaliana
                   >gi_1143390_emb_CAA58763_ (X83882)
hydroxymethylglutaryl-CoA synthase [Arabidopsis thaliana]
                   >gi 1586548 prf 2204245A hydroxy methylglutaryl CoA
                   synthase [Arabidopsis thaliana]
Seq. No.
                   140890
Seq. ID
                   LIB25-077-Q1-E1-E4
Method
                   BLASTN
NCBI GI
                   g4325340
BLAST score
                   165
E value
                   6.0e-88
                   222
Match length
                   100
% identity
                   Arabidopsis thaliana BAC T1J1
NCBI Description
                   140891
Seq. No.
Seq. ID
                   LIB25-077-Q1-E1-F1
Method
                   BLASTX
NCBI GI
                   q1438881
                   279
BLAST score
E value
                   7.0e-25
Match length
                   79
% identity
                   63
NCBI Description
                  (U43839) GmCK2p [Glycine max]
                   140892
Seq. No.
Seq. ID
                   LIB25-078-Q1-E1-B7
Method
                   BLASTX
                   g4063734
NCBI GI
BLAST score
                   563
E value
                   4.0e-58
Match length
                   123
% identity
                   (AC006259) putative P450 [Arabidopsis thaliana]
NCBI Description
                   140893
Seq. No.
                   LIB25-078-Q1-E1-C2
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2749918
BLAST score
                   135
E value
                   5.0e-70
Match length
                   193
                   100
% identity
                   Arabidopsis thaliana chromosome I BAC F3I6 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   140894
Seq. No.
```

LIB25-078-Q1-E1-C8

BLASTN

```
Method
                  BLASTN
NCBI GI
                  q3241926
BLAST score
                   140
E value
                   8.0e-73
Match length
                   388
                   98
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MSG15, complete sequence [Arabidopsis thaliana]
                  140895
Seq. No.
Seq. ID
                  LIB25-078-Q1-E1-D9
Method
                  BLASTN
                  q1465734
NCBI GI
                   335
BLAST score
E value
                   0.0e + 00
Match length
                  335
                  100
% identity
NCBI Description
                  Arabidopsis thaliana violaxanthin de-epoxidase precursor
                   (AVDE1) mRNA, complete cds
Seq. No.
                  140896
                  LIB25-078-Q1-E1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1363492
BLAST score
                  206
E value
                   3.0e-16
Match length
                  43
% identity
                  88
                  outer envelope membrane protein OEP75 precursor - garden
NCBI Description
                  pea >gi_576507 (L36858) outer membrane protein [Pisum
                  sativum] >gi 633607 emb CAA58720 (X83767) chloroplastic
                  outer envelope membrane protein (OEP75) [Pisum sativum]
Seq. No.
                  140897
                  LIB25-078-Q1-E1-G7
Seq. ID
Method
                  BLASTN
NCBI GI
                  q1313927
BLAST score
                  45
                  4.0e-16
E value
                  146
Match length
                  82
% identity
                  B.oleracea mRNA for IFA binding protein (sp10)
NCBI Description
Seq. No.
                  140898
Seq. ID
                  LIB25-079-Q1-E1-A7
Method
                  BLASTN
NCBI GI
                  g4519191
BLAST score
                  97
                  2.0e-47
E value
Match length
                  166
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K9P8, complete sequence
                  140899
Seq. No.
                  LIB25-079-Q1-E1-B12
Seq. ID
```

```
NCBI GI
                  q2281081
BLAST score
                  177
E value
                  6.0e-95
Match length
                  329
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F18019 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  140900
Seq. No.
                  LIB25-079-Q1-E1-B3
Seq. ID
Method
                BLASTX
                  g584892
NCBI GI
BLAST score
                  188
                  1.0e-14
E value
                  52
Match length
                  54
% identity
                  SERINE CARBOXYPEPTIDASE I PRECURSOR (CARBOXYPEPTIDASE C)
NCBI Description
                  >gi_629805_pir__S43516 serine carboxypeptidase I - rice
                  >gi_409580_dbj_BAA04510 (D17586) serine carboxypeptidase I
                  [Oryza satīva]
Seq. No.
                  140901
                  LIB25-079-Q1-E1-B4
Seq. ID
Method
                  BLASTN
                  g1905774
NCBI GI
BLAST score
                  191
                  1.0e-103
E value
Match length
                  202
                  99
% identity
                  A.thaliana mRNA for protein kinase
NCBI Description
                  140902
Seq. No.
                  LIB25-079-Q1-E1-B6
Seq. ID
Method
                  BLASTX
                  g2738996
NCBI GI
BLAST score
                  174
                  4.0e-13
E value
Match length
                  66
% identity
                  58
                   (AF022457) CYP97B2p [Glycine max]
NCBI Description
                  140903
Seq. No.
                  LIB25-079-Q1-E1-C2
Seq. ID
Method
                  BLASTN
                  g4309683
NCBI GI
                  77
BLAST score
                  2.0e-35
E value
                  177
Match length
                  86
% identity
                  Arabidopsis thaliana chromosome 1 BAC T31J12 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  140904
Seq. No.
Seq. ID
                  LIB25-079-Q1-E1-C3
Method
                  BLASTN
NCBI GI
                  g2264309
```

174°

BLAST score

```
E value
                   2.0e-93
Match length
                   182
% identity
                   99
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MJJ3, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140905
Seq. ID
                  LIB25-079-Q1-E1-C4
Method
                  BLASTN
NCBI GI
                   q4191771
BLAST score
                   118
E value
                   6.0e-60
Match length
                   219
                   100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F3P11 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140906
                  LIB25-079-Q1-E1-C5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3522932
BLAST score
                  83
E value
                   4.0e-39
Match length
                  151
% identity
                   51
                  Arabidopsis thaliana chromosome II BAC F14M4 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140907
Seq. ID
                  LIB25-079-Q1-E1-D2
Method
                  BLASTN
NCBI GI
                  g3046851
BLAST score
                   214
                   1.0e-117
E value
                   214
Match length
                   100
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MIJ24, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140908
                  LIB25-079-Q1-E1-D5
Seq. ID
Method
                  BLASTN
                   g4539309
NCBI GI
                   174
BLAST score
                   2.0e-93
E value
                  201
Match length
                   96
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F19H22
NCBI Description
                   (ESSA project)
                   140909
Seq. No.
                  LIB25-079-Q1-E1-D6
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3193282
BLAST score
                   210
                  1.0e-115
E value
                   210
Match length
```

```
100
% identity
                  Arabidopsis thaliana BAC T14P8
NCBI Description
                  140910
Seq. No.
                  LIB25-079-Q1-E1-D7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4559319
BLAST score
                  105
                  3.0e-52
E value
Match length
                  194
                  96
% identity
                  Arabidopsis thaliana chromosome II BAC F14N22 genomic
NCBI Description
                  sequence, complete sequence
                  140911
Seq. No.
                  LIB25-079-Q1-E1-E3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g992705
                  66
BLAST score
                  5.0e-29
E value
                  86
Match length
                  94
% identity
                  Arabidopsis ubiquitin conjugating enzyme E2 (UBC13) gene,
NCBI Description
                  complete cds
Seq. No.
                  140912
Seq. ID
                  LIB25-079-Q1-E1-E8
Method
                  BLASTX
                  g256963
NCBI GI
                  180
BLAST score
                  8.0e-14
E value
Match length
                   68
% identity
                   63
                   (S45910) glyceraldehyde-3-phosphate-dehydrogenase subunit
NCBI Description
                  GapA {N-terminal} [Arabidopsis thaliana, Peptide
                  Chloroplast Partial, 68 aa] [Arabidopsis thaliana]
Seq. No.
                  140913
                  LIB25-079-Q1-E1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129623
BLAST score
                   473
                  1.0e-47
E value
                  106
Match length
                  86
% identity
                  immunophilin FKBP15-2 - Arabidopsis thaliana >gi_1272408
NCBI Description
                   (U52047) immunophilin [Arabidopsis thaliana]
                  140914
Seq. No.
Seq. ID
                  LIB25-079-Q1-E1-F5
Method
                  BLASTN
NCBI GI
                  g4220640
BLAST score
                  188
E value
                  1.0e-101
Match length
                  196
                   99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
```

## MPE11, complete sequence [Arabidopsis thaliana] 140915 Seq. No. Seq. ID LIB25-079-Q1-E1-F6 Method BLASTX NCBI GI q2499542 246 BLAST score 2.0e-21 E value Match length 68 % identity 71 NCBI Description IRON(III) - ZINC(II) PURPLE ACID PHOSPHATASE PRECURSOR (PAP) >gi 1218042 (U48448) secreted purple acid phosphatase precursor [Arabidopsis thaliana] 140916 Seq. No. Seq. ID LIB25-079-Q1-E1-F7 BLASTN Method g3985958 NCBI GI 203 BLAST score 1.0e-110 E value 203 Match length 100 % identity Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MZN1, complete sequence [Arabidopsis thaliana] Seq. No. 140917 Seq. ID LIB25-079-Q1-E1-G3 Method BLASTN NCBI GI g2979540 BLAST score 101 8.0e-50 E value Match length 140 100 % identity Arabidopsis thaliana chromosome II BAC F17K2 genomic NCBI Description sequence, complete sequence [Arabidopsis thaliana] Seq. No. 140918 Seq. ID LIB25-079-Q1-E1-G7 Method BLASTN NCBI GI g3985955 BLAST score 211 1.0e-115 E value Match length 211 100 % identity Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MTH16, complete sequence [Arabidopsis thaliana] Seq. No. 140919 LIB25-079-Q1-E1-H1 Seq. ID Method BLASTN NCBI GI g4510360 BLAST score 203 E value 1.0e-110 Match length 203

sequence, complete sequence

Arabidopsis thaliana chromosome II BAC F11F19 genomic

100

% identity

NCBI Description

NCBI Description

```
140920
Seq. No.
                   LIB25-079-Q1-E1-H8
Seq. ID
Method
                   BLASTX
                   q3122673
NCBI GI
                   331
BLAST score
                   2.0e-31
E value
                   62
Match length
                   100
% identity
                   60S RIBOSOMAL PROTEIN L15 >gi_2245027_emb_CAB10447_
NCBI Description
                   (Z97341) ribosomal protein [Arabidopsis thaliana]
Seq. No.
                   140921
                   LIB25-079-Q1-E1-H9
Seq. ID
Method
                   BLASTX
                   g3273751
NCBI GI
BLAST score
                   556
                   2.0e-57
E value
                   108
Match length
% identity
                   (AF061518) manganese superoxide dismutase [Arabidopsis
NCBI Description
                   thaliana]
                   140922
Seq. No.
                   LIB25-080-Q1-E1-A6
Seq. ID
Method
                   BLASTX
                   g1170503
NCBI GI
                   578
BLAST score
                   5.0e-60
E value
                   114
Match length
                   100
% identity
                   EUKARYOTIC INITIATION FACTOR 4A-1 (EIF-4A-1)
NCBI Description
                   >gi_322503_pir__JC1452 translation initiation factor
                   eIF-4A1 - Arabidopsis thaliana >gi_16554_emb_CAA46188
                   (X65052) eukaryotic translation in \overline{1} tiation factor 4A-\overline{1}
                   [Arabidopsis thaliana]
Seq. No.
                   140923
                   LIB25-080-Q1-E1-A9
Seq. ID
                   BLASTN
Method
NCBI GI
                   q2935341
BLAST score
                   150
E value
                   8.0e-79
                   310
Match length
                   100
% identity
                   Arabidopsis thaliana steroid 22-alpha-hydroxylase (DWF4)
NCBI Description
                   gene, complete cds
                   140924
Seq. No.
                   LIB25-080-Q1-E1-B12
Seq. ID
Method
                   BLASTX
                   g132102
NCBI GI
BLAST score
                   585
E value
                   8.0e-61
Match length
                   108
                   97
% identity
                   RIBULOSE BISPHOSPHATE CARBOXYLASE SMALL CHAIN 2B PRECURSOR
```

```
B2 precursor - Arabidopsis thaliana >gi_16194_emb_CAA32701_
                   (X14564) ribulose bisphosphate carboxylase [Arabidopsis
                  thaliana]
                  140925
Seq. No.
                  LIB25-080-Q1-E1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                   q4512655
BLAST score
                   516
E value
                   1.0e-52
Match length
                   94
                  100
% identity
                   (AC007048) putative protein phosphatase 2C [Arabidopsis
NCBI Description
                   thaliana]
                  140926
Seq. No.
Seq. ID
                  LIB25-080-Q1-E1-D4
Method
                  BLASTN
NCBI GI
                  g2623294
BLAST score
                  152
E value
                   5.0e-80
                  330
Match length
                   93
% identity
                  Arabidopsis thaliana chromosome II BAC T20B5 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana] .
                  140927
Seq. No.
                  LIB25-080-Q1-E1-D7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2827698
BLAST score
                  118
                   9.0e-60
E value
Match length
                  329
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 5, BAC clone F6H11
NCBI Description
                   (ESSAII project)
                  140928
Seq. No.
                  LIB25-080-Q1-E1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1335862
BLAST score
                  579
                  4.0e-60
E value
                  117
Match length
                  93
% identity
                   (U42608) clathrin heavy chain [Glycine max]
NCBI Description
Seq. No.
                  140929
Seq. ID
                  LIB25-080-Q1-E1-G1
Method
                  BLASTX
NCBI GI
                  g282865
BLAST score
                  472
E value
                  1.0e-47
                  97
Match length
                  91
% identity
```

(RUBISCO SMALL SUBUNIT 2B) >gi\_68061\_pir\_\_RKMUB2

ribulose-bisphosphate carboxylase (EC 4.1.1.39) small chain

Match length

111

```
chlorophyll a/b-binding protein - Arabidopsis thaliana
NCBI Description
                  >gi_16207_emb_CAA39534_ (X56062) chlorophyll A/B-binding
                  protein [Arabidopsis thaliana] >gi_166644 (M85150)
                  chlorophyll a/b-binding protein [Arabidopsis thaliana]
                  >gi_4678304_emb_CAB41095.1_ (AL049655) chlorophyll
                  a/b-binding protein [Arabidopsis thaliana]
                  140930
Seq. No.
Seq. ID
                  LIB25-080-Q1-E1-G11
Method
                  BLASTX
NCBI GI
                  q4539314
BLAST score
                  410
E value
                  3.0e-40
Match length
                  117
                  81
% identity
                  (AL035679) kinesin like protein [Arabidopsis thaliana]
NCBI Description
                  140931
Seq. No.
                  LIB25-080-Q1-E1-G12
Seq. ID
                  BLASTX
Method
                  g2760332
NCBI GI
                  328
BLAST score
E value
                  1.0e-30
                  72
Match length
                  96
% identity
                  (AC002130) F1N21.17 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140932
                  LIB25-080-Q1-E1-H4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2088652
BLAST score
                  584
                  1.0e-60
E value
                  115
Match length
                  97
% identity
                   (AF002109) 26S proteasome regulatory subunit S12 isolog
NCBI Description
                   [Arabidopsis thaliana] >gi_2351376 (U54561) translation
                  initiation factor eIF2 p47 subunit homolog [Arabidopsis
                  thaliana]
                  140933
Seq. No.
                  LIB25-080-Q1-E1-H6
Seq. ID
Method
                  BLASTN
                  g3193282
NCBI GI
BLAST score
                  190
                  1.0e-102
E value
                  267
Match length
                  100
% identity
                  Arabidopsis thaliana BAC T14P8
NCBI Description
                  140934
Seq. No.
                  LIB25-080-Q1-E1-H9
Seq. ID
Method
                  BLASTX
                  q3668175
NCBI GI
BLAST score
                  521
                  3.0e-53
E value
```

```
% identity
 NCBI Description
                     (AB006778) vegetative storage protein [Arabidopsis
                    thaliana]
                    140935
  Seq. No.
  Seq. ID
                    LIB25-081-Q1-E1-A9
 Method
                    BLASTX
 NCBI GI
                    g2829894
. BLAST score
                    293
 E value
                    1.0e-26
 Match length
                    88
                    73
  % identity
                     (AC002311) Unknown protein [Arabidopsis thaliana]
 NCBI Description
  Seq. No.
                    140936
                    LIB25-081-Q1-E1-B10
  Seq. ID
 Method
                    BLASTX
 NCBI GI
                    q886116
 BLAST score
                    537
 E value
                     4.0e-55
 Match length
                    105
                    100
  % identity
 NCBI Description
                     (U27609) TCH4 protein [Arabidopsis thaliana] >gi 2952473
                     (AF051338) xyloglucan endotransglycosylase related protein
                     [Arabidopsis thaliana]
                    140937
  Seq. No.
                    LIB25-081-Q1-E1-D4
  Seq. ID
 Method
                    BLASTN
 NCBI GI
                    q4580365
  BLAST score
                    265
                    1.0e-147
 E value
 Match length
                    354
                    100
  % identity
 NCBI Description
                    Arabidopsis thaliana chromosome I BAC F3F20 genomic
                    sequence, complete sequence
                    140938
 Seq. No.
  Seq. ID
                    LIB25-081-Q1-E1-D7
 Method
                    BLASTN
 NCBI GI
                    q4263694
 BLAST score
                    110
 E value
                    6.0e-55
 Match length
                    370
                    100
  % identity
                    Arabidopsis thaliana chromosome II BAC F22D22 genomic
 NCBI Description
                    sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    140939
                    LIB25-081-01-E1-D8
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    q3075394
 BLAST score
                    639
 E value
                    4.0e-67
 Match length
                    127
  % identity
 NCBI Description
                     (AC004484) putative beta-ketoacyl-CoA synthase [Arabidopsis
```

NCBI GI

BLASTN

q2642152

```
protein [Arabidopsis thaliana]
Seq. No.
                  140940
Seq. ID
                  LIB25-081-Q1-E1-E10
Method
                  BLASTN
NCBI GI
                  q3869062
BLAST score
                  141
E value
                  2.0e-73
Match length
                  350
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K11I1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140941
Seq. ID
                  LIB25-081-Q1-E1-E12
Method
                  BLASTX
NCBI GI
                  g3080405
BLAST score
                  146
E value
                  2.0e-09
Match length
                  38
% identity
                  37
                   (AL022603) Lsd1 like protein [Arabidopsis thaliana]
NCBI Description
                  >gi_4455269_emb_CAB36805.1_ (AL035527) Lsd1 like protein
                  [Arabidopsis thaliana]
Seq. No.
                  140942
                  LIB25-081-Q1-E1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g115767
BLAST score
                  538
                  3.0e-55
E value
Match length
                  103
% identity
                  100
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                   (CAB-165/180) (LHCP) >gi_81603_pir__A29280 chlorophyll
                  a/b-binding protein ab165 - Arabidopsis thaliana
                  >gi_16368_emb_CAA27540_ (X03907) chlorophyll a/b binding
                  protein (LHCP AB 65) [Arabidopsis thaliana]
                  >gi_16372_emb_CAA27541_ (X03908) chlorophyll a/b binding
                  protein (LHCP AB 180) [Arabidopsis thaliana]
Seq. No.
                  140943
Seq. ID
                  LIB25-081-Q1-E1-F10
Method
                  BLASTX
NCBI GI
                  q3819710
BLAST score
                  457
E value
                  8.0e-46
Match length
                  86
% identity
                   (AJ224161) delta-8 sphingolipid desaturase [Arabidopsis
NCBI Description
                  thaliana]
                  140944
Seq. No.
                  LIB25-081-Q1-E1-F5
Seq. ID
```

thaliana] >gi 3559809 emb CAA09311 (AJ010713) fiddlehead

```
BLAST score
                  356
E value
                  0.0e+00
Match length
                  371
% identity
                  99
                  Arabidopsis thaliana chromosome II BAC T5I7 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  140945
Seq. No.
Seq. ID
                  LIB25-081-Q1-E1-F8
Method
                  BLASTX
NCBI GI
                  q3023742
BLAST score
                  172
E value
                  2.0e-12
Match length
                  36
% identity
                  100
                  FERREDOXIN 2 PRECURSOR >gi 1931646 (U95973) ferredoxin
NCBI Description
                  precusor isolog [Arabidopsis thaliana]
                  140946
Seq. No.
Seq. ID
                  LIB25-081-Q1-E1-G10
Method
                  BLASTX
NCBI GI
                  q1762428
BLAST score
                  468
E value
                  4.0e-47
                  91
Match length
% identity
                   (U59467) aromatic rich glycoprotein JP630 [Arabidopsis
NCBI Description
                  thaliana]
                  140947
Seq. No.
Seq. ID
                  LIB25-081-Q1-E1-G12
                  BLASTN
Method
NCBI GI
                  q3766106
BLAST score
                  74
                  2.0e-33
E value
Match length
                  358
% identity
                   99
                  Arabidopsis thaliana chromosome 1 BAC F9K20 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  140948
Seq. No.
Seq. ID
                  LIB25-081-Q1-E1-G8
Method
                  BLASTX
NCBI GI
                  q3219938
BLAST score
                  151
                  8.0e-10
E value
Match length
                  58
% identity
                  HYPOTHETICAL 34.9 KD PROTEIN C57A10.11C IN CHROMOSOME I
NCBI Description
                  >gi 2058378 emb CAB08174 (Z94864) hypothetical protein
                  [Schizosaccharomyces pombe]
Seq. No.
                  140949
                  LIB25-081-Q1-E1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1703227
BLAST score
                  279
```

Seq. ID

```
7.0e-25
E value
Match length
                   68
% identity
                   76
                  ALANINE AMINOTRANSFERASE 2 (GPT) (GLUTAMIC--PYRUVIC
NCBI Description
                   TRANSAMINASE 2) (GLUTAMIC--ALANINE TRANSAMINASE 2)
                   (ALAAT-2) >gi_629770_pir__S42535 alanine transaminase (EC
                   2.6.1.2) - barley >gi 469148_emb_CAA81231_ (Z26322) alanine
                   aminotransferase [Hordeum vulgare]
                   140950
Seq. No.
Seq. ID
                   LIB25-082-Q1-E1-D12
                   BLASTN
Method
NCBI GI
                   q2182286
                   205
BLAST score
                   1.0e-111
E value
Match length
                   381
                   100
% identity
                   Sequence of BAC F20P5 from Arabidopsis thaliana chromosome
NCBI Description
                   1, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140951
                   LIB25-082-Q1-E1-D9
Seq. ID
Method
                   BLASTN
                   g4589435
NCBI GI
                  .328
BLAST score
                   0.0e + 00
E value
Match length
                   349
                   98
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MOE17, complete sequence
                   140952
Seq. No.
                   LIB25-082-Q1-E1-E10
Seq. ID
                   BLASTX
Method
                   g2289001
NCBI GI
BLAST score
                   631
                   4.0e-66
E value
Match length
                   128
                   95
% identity
                   (AC002335) small nuclear ribonucleoprotein isolog
NCBI Description
                   [Arabidopsis thaliana]
                   140953
Seq. No.
                   LIB25-082-Q1-E1-E3
Seq. ID
Method
                   BLASTX
                   g464621
NCBI GI
                   368
BLAST score
                   2.0e-35
E value
                   94
Match length
                   74
% identity
                   60S RIBOSOMAL PROTEIN L6 (YL16-LIKE) >gi_280374_pir__S28586
NCBI Description
                   ribosomal protein ML16 - common ice plant
>gi_19539_emb_CAA49175_ (X69378) ribosomal protein YL16
                   [Mesembryanthemum crystallinum]
                   140954
Seq. No.
```

LIB25-082-Q1-E1-F11

```
BLASTN
Method
NCBI GI
                  g2564046
BLAST score
                  180
E value
                  6.0e-97
                  211
Match length
                  95
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MGI19, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140955
                  LIB25-082-Q1-E1-F5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1350956
BLAST score
                  560
E value
                  8.0e-58
Match length
                  109
                  100
% identity
                  40S RIBOSOMAL PROTEIN S20 (S22)
NCBI Description
                  140956
Seq. No.
                  LIB25-082-Q1-E1-G10
Seq. ID
Method
                  BLASTN
                  g4757405
NCBI GI
                  297
BLAST score
                  1.0e-166
E value
Match length
                  392
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MOJ10, complete sequence
                  140957
Seq. No.
                  LIB25-082-Q1-E1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204265
                  317
BLAST score
                  2.0e-29
E value
                  112
Match length
% identity
                   61
                   (AC005223) 45643 [Arabidopsis thaliana]
NCBI Description
                  140958
Seq. No.
                  LIB25-082-Q1-E1-H4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3831457
BLAST score
                  437
                  2.0e-43
E value
                  88
Match length
                  100
% identity
                   (AC005700) putative ion channel protein [Arabidopsis
NCBI Description
                  thaliana]
                  140959
Seq. No.
                  LIB25-082-Q1-E1-H8
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4512646
                  296
BLAST score
                  1.0e-166
E value
```

E value

```
300
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F23N11 genomic
NCBI Description
                  sequence, complete sequence
                  140960
Seq. No.
                  LIB25-083-Q1-E1-A12
Seq. ID
                  BLASTX
Method
                  g2129759
NCBI GI
                  504
BLAST score
                  3.0e-51
E value
Match length
                  101
                  100
% identity
                  UDPglucose 4-epimerase (EC 5.1.3.2) - Arabidopsis thaliana
NCBI Description
                  >qi 1143392 emb CAA90941 (Z54214) uridine diphosphate
                  glucose epimerase [Arabidopsis thaliana]
Seq. No.
                  140961
                  LIB25-083-Q1-E1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4759280
BLAST score
                  202
                  8.0e-16
E value
Match length
                  61
                  66
% identity
                  U5 snRNP-specific protein, 116 kD >gi 434759 dbj BAA04699
NCBI Description
                   (D21163) similar to human elongation factor 2 mRNA (HSEF2).
                   [Homo sapiens]
Seq. No.
                  140962
                  LIB25-083-Q1-E1-B10
Seq. ID
Method
                  BLASTX
                  g3150415
NCBI GI
BLAST score
                  459
E value
                  6.0e-46
Match length
                  89
% identity
                   (AC004165) sec13-related protein [Arabidopsis thaliana]
NCBI Description
                  >gi_3420046 (AC004680) sec13-related protein [Arabidopsis
                  thaliana]
                  140963
Seq. No.
                  LIB25-083-Q1-E1-B7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2245107
BLAST score
                  104
                  2.0e-36
E value
                  96
Match length
                  70
% identity
                  (Z97343) thioesterase homolog [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140964
Seq. ID
                  LIB25-083-Q1-E1-C10
                  BLASTX
Method
                  q131398
NCBI GI
BLAST score
                  523
```

2.0e-53

```
121
Match length
                   88
% identity
                   PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR
NCBI Description
                   >gi_72714_pir__F2MU10 photosystem II 10K protein precursor
- Arabidopsis thaliana >gi_16447_emb_CAA39441_ (X55970)
                   photosystem II 10 kDa polypeptide [Arabidopsis thaliana]
                   >gi_3152571 (AC002986) Match to photosystem II 10kDa
                   polypeptide gb_X55970. ESTs gb_Z17693, gb N37616,
                   gb_T41858, gb_T88021, gb_R37531, gb_T04679, gb_N37520,
                   gb_N64965, gb_Z17592 and gb_N65338, gb_N37466 and gb_T45400
                   come from this gene. [Arabidopsis
Seq. No.
                   140965
Seq. ID
                   LIB25-083-Q1-E1-C11
Method
                   BLASTX
NCBI GI
                   g2275202
BLAST score
                   576
                   1.0e-59
E value
Match length
                   124
% identity
                   (AC002337) acyl-CoA synthetase isolog [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   140966
                   LIB25-083-Q1-E1-C12
Seq. ID
Method
                   BLASTX
NCBI GI
                   a115385
BLAST score
                   643
                   2.0e-67
E value
                   124
Match length
% identity
                   100
                   CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                   (CAB-4) (LHCP) >gi 166646 (M63931) light-harvesting
                   chlorophyll a/b binding protein [Arabidopsis thaliana]
Seq. No.
                   140967
Seq. ID
                   LIB25-083-Q1-E1-C9
Method
                   BLASTN
                   q2760164
NCBI GI
BLAST score
                   330
                   0.0e + 00
E value
Match length
                   367
                   100
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K18P6, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140968
Seq. ID
                   LIB25-083-Q1-E1-D11
Method
                   BLASTX
NCBI GI
                   q1323704
BLAST score
                   177
                   7.0e-13
E value
Match length
                   93 .
% identity
                   42
                   (U55387) similar to C. elegans F38E1.9 gene product encoded
NCBI Description
```

by GenBank Accession Number U41996 [Cricetulus griseus]

BLASTN

```
Seq. No.
                  140969
                  LIB25-083-Q1-E1-E4
Seq. ID
Method
                  BLASTN
                                                                        ....
NCBI GI
                  g3821780
                  36
BLAST score
E value
                  9.0e-11
Match length
                  48
                   67
% identity
                  Xenopus laevis cDNA clone 27A6-1
NCBI Description
                  140970
Seq. No.
Seq. ID
                  LIB25-083-Q1-E1-F10
Method
                  BLASTX
NCBI GI
                  q1170091
BLAST score
                  549
                   2.0e-56
E value
                  107
Match length
                   100
% identity
                  GLUTATHIONE S-TRANSFERASE PM24 (24 KD AUXIN-BINDING
NCBI Description
                  PROTEIN) (CLASS PHI) >gi_479736_pir__S35268 glutathione
                   transferase (EC 2.5.1.18) gst2 - Arabidopsis thaliana
                   >gi_166723 (L07589) glutathione S-transferase [Arabidopsis
                   tha\overline{1}iana] >gi_347212 (L11601) glutathione S-transferase
                   [Arabidopsis thaliana] >gi_407090_emb_CAA53051_ (X75303)
                   glutathione S-transferase [Arabidopsis thaliana]
                   >gi_2262152_gb_AAC78264.1_AAC78264 (AC002330) Atpm24.1
                   glutathione S transferase [Arabidopsis thaliana]
                   140971
Seq. No.
                  LIB25-083-Q1-E1-F11
Seq. ID
                  BLASTN
Method
                   g4056429
NCBI GI
BLAST score
                   259
                   1.0e-144
E value
                   259
Match length
                   100
% identity
                  Arabidopsis thaliana chromosome 1 BAC F508 sequence,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   140972
Seq. No.
                  LIB25-083-Q1-E1-H6
Seq. ID
Method
                   BLASTX
                   g399091
NCBI GI
BLAST score
                   381
                   8.0e-37
E value
                   94
Match length
                   83
% identity
                  PYROPHOSPHATE-ENERGIZED VACUOLAR MEMBRANE PROTON PUMP.
NCBI Description
                   (PYROPHOSPHATE-ENERGIZED INORGANIC PYROPHOSPHATASE)
                   (H+-PPASE) >gi_282878_pir__A38230 inorganic pyrophosphatase
                   (EC 3.6.1.1), H+-translocating pyrophosphate-energized -
                   Arabidopsis thaliana >gi_166634 (M81892) vacuolar
                   H+-phosphatase [Arabidopsis thaliana]
                   140973
Seq. No.
Seq. ID
                  LIB25-084-Q1-E1-A1
```

BLAST score

277

```
NCBI GI
                  g3299824
                  198
BLAST score
E value
                  1.0e-107
Match length
                  253
% identity
                   96
NCBI Description
                  Arabidopsis thaliana BAC F4C21 from chromosome IV, top arm,
                  near 17 cM, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140974
Seq. ID
                  LIB25-084-Q1-E1-A3
Method
                  BLASTN
                  q4589450
NCBI GI
BLAST score
                  196
                   1.0e-106
E value
Match length
                  219
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  T31K7, complete sequence
                  140975
Seq. No.
                  LIB25-084-Q1-E1-A4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4406776
BLAST score
                  215
E value
                  1.0e-118
Match length
                  223
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC F14H2O genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  140976
                  LIB25-084-Q1-E1-A6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4218109
                  214
BLAST score
E value
                  1.0e-117
Match length
                  214
% identity
                  100
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F16A16
NCBI Description
                   (ESSAII project)
Seq. No.
                  140977
                  LIB25-084-Q1-E1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4160346
BLAST score
                  197
E value
                  1.0e-15
Match length
                  73
% identity
                  51
                   (AL035216) nucleolar protein involved in pre-rRNA
NCBI Description
                  processing [Schizosaccharomyces pombe]
Seq. No.
                  140978
                  LIB25-084-Q1-E1-B11
Seq. ID
Method
                  BLASTX
                  q4539332
NCBI GI
```

```
7.0e-25
E value
Match length
                  55
                  100
% identity
                   (AL035539) glycosyltransferase like protein (fragment)
NCBI Description
                   [Arabidopsis thaliana]
                  140979
Seq. No.
                  LIB25-084-Q1-E1-B3
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4454587
                  50
BLAST score
                   3.0e-19
E value
                  110
Match length
                  86
% identity
                  Arabidopsis thaliana BAC F21A20 from chromosome V near 61
NCBI Description
                  cM, complete sequence [Arabidopsis thaliana]
                  140980
Seq. No.
                  LIB25-084-Q1-E1-B4
Seq. ID
                  BLASTX
Method
                  g1170040
NCBI GI
                   276
BLAST score
                   7.0e-25
E value
                  81
Match length
                   63
% identity
                  GLUTATHIONE REDUCTASE, CHLOROPLAST PRECURSOR (GR) (GRASE)
NCBI Description
                   >gi 451198_dbj_BAA03137_ (D14049) glutathione reductase
                   precursor [Arabidopsis thaliana] >gi_1944448_dbj_BAA19653_
                   (D89620) glutathione reductase precursor [Arabidopsis
                   thaliana] >gi 740576 prf 2005376A glutathione reductase
                   [Arabidopsis thaliana]
                   140981
Seq. No.
                   LIB25-084-Q1-E1-B7
Seq. ID
                   BLASTN
Method
                   g4757412
NCBI GI
                   219
BLAST score
                   1.0e-120
E value
Match length
                   246
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MXK23, complete sequence
                   140982
Seq. No.
                   LIB25-084-Q1-E1-B8
Seq. ID
                   BLASTN
Method
                   g2264303
NCBI GI
                   223
BLAST score
                   1.0e-122
E value
                   223
Match length
                   100
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MBB18, complete sequence [Arabidopsis thaliana]
                   140983
Seq. No.
                   LIB25-084-Q1-E1-B9
Seq. ID
```

BLASTX

BLASTN

```
q2911073
NCBI GI
BLAST score
                  244
E value
                  6.0e-21
Match length
                  59
% identity
                  90
                  (AL021960) putative protein [Arabidopsis thaliana]
NCBI Description
                  140984
Seq. No.
                  LIB25-084-Q1-E1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g115767
BLAST score
                  353
E value
                  7.0e-34
                  69
Match length
                  100
% identity
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                  (CAB-165/180) (LHCP) >gi_81603_pir_ A29280 chlorophyll
                  a/b-binding protein ab165 - Arabidopsis thaliana
                  >gi 16368 emb CAA27540 (X03907) chlorophyll a/b binding
                  protein (LHCP AB 65) [Arabidopsis thaliana]
                  >gi 16372 emb CAA27541 (X03908) chlorophyll a/b binding
                  protein (LHCP AB 180) [Arabidopsis thaliana]
                  140985
Seq. No.
                  LIB25-084-Q1-E1-C11
Seq. ID
Method
                  BLASTX
                  q3540194
NCBI GI
                  279
BLAST score
E value
                  4.0e-25
                  60
Match length
                  100
% identity
                  (AC004260) AtVPS45p [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  140986
                  LIB25-084-Q1-E1-C12
Seq. ID
Method
                  BLASTX
                  g542157
NCBI GI
                  409
BLAST score
E value
                  2.0e-40
Match length
                  94
% identity
                  82
                  ribosomal 5S RNA-binding protein - Rice
NCBI Description
                  140987
Seq. No.
Seq. ID
                  LIB25-084-Q1-E1-C2
Method
                  BLASTX
                  q3980401
NCBI GI
BLAST score
                  419
E value
                  1.0e-41
Match length
                  83
                  99
% identity
                  (AC004561) putative tropinone reductase [Arabidopsis
NCBI Description
                  thaliana]
                  140988
Seq. No.
Seq. ID
                  LIB25-084-Q1-E1-C3
```

Match length

249

```
NCBI GI
                   g3831437
BLAST score
                   117
E value
                  3.0e-59
Match length
                ್ಷ: 210
% identity
                   100
                  Arabidopsis thaliana chromosome II BAC T3A4 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   140989
Seq. ID
                   LIB25-084-Q1-E1-C5
Method
                   BLASTX
NCBI GI
                   q1864017
BLAST score
                   351
                   1.0e-33
E value
Match length
                   68
                   100
% identity
                   (D63396) elongation factor-1 alpha [Nicotiana tabacum]
NCBI Description
                   140990
Seq. No.
                   LIB25-084-Q1-E1-C8
Seq. ID
Method
                   BLASTX
                   g481132
NCBI GI
BLAST score
                   233
                   8.0e-20
E value
Match length
                   61
                   80
% identity
                   sucrose transport protein SUC1 - Arabidopsis thaliana
NCBI Description
                   >gi_407094_emb_CAA53147_ (X75365) sucrose-proton symporter
                   [Arabidopsis thaliana]
                   140991
Seq. No.
                   LIB25-084-Q1-E1-C9
Seq. ID
Method
                   BLASTX
                   g4584546
NCBI GI
BLAST score
                   336
                   9.0e-32
E value
Match length
                   94
% identity
                   63
                   (AL049608) putative protein [Arabidopsis thaliana]
NCBI Description
                   140992
Seq. No.
                   LIB25-084-Q1-E1-D4
Seq. ID.
                   BLASTN
Method
                   g3250737
NCBI GI
BLAST score
                   114
                   1.0e-57
E value
                   204
Match length
                   88
% identity
                   Arabidopsis thaliana ASKbeta gene, complete CDS
NCBI Description
                   140993
Seq. No.
                   LIB25-084-Q1-E1-E1
Seq. ID
                   BLASTN
Method
NCBI GI
                   g3135250
BLAST score
                   184
                   3.0e-99
E value
```

% identity NCBI Description Arabidopsis thaliana chromosome II BAC F27F23 genomic sequence, complete sequence [Arabidopsis thaliana] Seq. No. 140994 Seq. ID LIB25-084-Q1-E1-E10 Method BLASTN NCBI GI q1490552 BLAST score 278 E value 1.0e-155 Match length 278 % identity 100 NCBI Description Arabidopsis thaliana S-adenosylmethionine decarboxylase (SAMdc) mRNA, complete cds Seq. No. 140995 Seq. ID LIB25-084-Q1-E1-E3 Method BLASTX NCBI GI g2119848 BLAST score 417 E value 2.0e-41 Match length 82

% identity 100 NCBI Description

chlorophyll a/b-binding protein type I precursor Lhb1B1 -Arabidopsis thaliana >gi\_16366\_emb\_CAA45789\_ (X64459) photosystem II type I chlorophyll a /b binding protein [Arabidopsis thaliana] >gi\_3128229 (AC004077) putative photosystem II type I chlorophyll a/b binding protein [Arabidopsis thaliana] >gi\_3337372 (AC004481) putative photosystem II type I chlorophyll a/b binding protein [Arabidopsis thaliana]

Seq. No. 140996 Seq. ID LIB25-084-Q1-E1-E4 Method BLASTX NCBI GI g2642159 BLAST score 177 E value 3.0e-13 Match length 35 % identity

(AC003000) putative mannose-1-phosphate guanyltransferase NCBI Description [Arabidopsis thaliana] >gi\_3598958 (AF076484) GDP-mannose

pyrophosphorylase [Arabidopsis thaliana] >gi\_4151925

(AF108660) CYT1 protein [Arabidopsis thaliana]

Seq. No. 140997

Seq. ID LIB25-084-Q1-E1-F10

Method BLASTX NCBI GI g4585977 BLAST score 171 E value 2.0e-12 Match length 44

% identity

NCBI Description (AC005287) Unknown protein [Arabidopsis thaliana]

Seq. No. 140998

Seq. ID LIB25-084-Q1-E1-F11

Seq. ID

```
BLASTX
Method
NCBI GI
                   g1172977
BLAST score
                   424
E value
                   4.0e-42
                   88
Match length
                   98
% identity
                   60S RIBOSOMAL PROTEIN L18 >gi_606970 (U15741) cytoplasmic
NCBI Description
                   ribosomal protein L18 [Arabidopsis thaliana]
Seq. No.
                   140999
                                               i.;;.
                   LIB25-084-Q1-E1-F12
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4455321
BLAST score
                   267
                   1.0e-148
E value
Match length
                   267
                   100
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F4I10
NCBI Description
                   (ESSAII project)
                   141000
Seq. No.
Seq. ID
                   LIB25-084-Q1-E1-F3
Method
                   BLASTN
NCBI GI
                   g3687221
                   129
BLAST score
                   2.0e-66
E value
Match length
                   247
% identity
                   96
                   Arabidopsis thaliana chromosome II BAC F6F22 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141001
Seq. ID
                   LIB25-084-Q1-E1-F4
Method
                   BLASTX
                   g4056469
NCBI GI
                   187
BLAST score
                   2.0e-14
E value
Match length
                   39 .
                   100
% identity
                   (AC005990) Strong similarity to gb_M95166 ADP-ribosylation
NCBI Description
                   factor from Arabidopsis thaliana. ESTs gb_Z25826, gb_R90191, gb_N65697, gb_AA713150, gb_T46332, gb_AA040967,
                   gb AA712956, gb T46403, gb T46050, gb AI100391 and
                   gb Z25043 come from t
                   141002
Seq. No.
                   LIB25-084-Q1-E1-F5
Seq. ID
                   BLASTN
Method
NCBI GI
                   g710625
BLAST score
                   222
                   1.0e-122
E value
                   243
Match length
                   97.
% identity
                   Arabidopsis thaliana mRNA for ERD15 protein, complete cds
NCBI Description
Seq. No.
                   141003
```

LIB25-084-Q1-E1-G1

```
Method
                  BLASTN
NCBI GI
                  q4220640
BLAST score
                  205
E value
                  1.0e-112
Match length
                  224
% identity
                  98
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MPE11, complete sequence [Arabidopsis thaliana]
                  141004
Seq. No.
Seq. ID
                  LIB25-084-Q1-E1-G10
Method
                  BLASTX
NCBI GI
                  q3641837
BLAST score
                  408
E value
                  3.0e-40
                  90
Match length
                  93
% identity
                   (AL023094) Nonclathrin coat protein gamma - like protein
NCBI Description
                   [Arabidopsis thaliana]
                  141005
Seq. No.
                  LIB25-084-Q1-E1-G11
Seq. ID
Method
                  BLASTN
                  g3449313
NCBI GI
                  283
BLAST score
E value
                  1.0e-158
                  283
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K21P3, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141006
                  LIB25-084-Q1-E1-G12
Seq. ID
Method
                  BLASTX
                  q2160168
NCBI GI
BLAST score
                  300
E value
                  2.0e-27
Match length
                  61
% identity
                   (AC000132) Strong similarity to R. communis
NCBI Description
                  phosphoglycerate mutase (gb X70652). ESTs
                  gb_T41853,gb_T76648 come from this gene. [Arabidopsis
                  thaliana]
                  141007
Seq. No.
                  LIB25-084-Q1-E1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q124224
BLAST score
                  289
                  2.0e-26
E value
Match length
                  62
% identity
                  INITIATION FACTOR 5A-1 (EIF-5A) (EIF-4D)
NCBI Description
                  >gi_100345_pir__S21060 translation initiation factor eIF-5A
                  - common tobacco >gi 19887 emb CAA45105 (X63543)
```

eukaryotic initiatin factor 5A (3) [Nicotiana tabacum]

NCBI GI

BLASTX

g4725956



```
141008
Seq. No.
Seq. ID
                  LIB25-084-Q1-E1-H5
Method
                  BLASTN
NCBI GI
                  g2062705
BLAST score
                  20
E value
                  2.0e-01
                  37
Match length
                   34
% identity
NCBI Description
                  Human butyrophilin (BTF5) mRNA, complete cds
Seq. No.
                  141009
                  LIB25-085-Q1-E1-B3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2351068
BLAST score
                  146
                   2.0e-76
E value
                   338
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MRH10, complete sequence [Arabidopsis thaliana]
                  141010
Seq. No.
                  LIB25-085-Q1-E1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1871185
BLAST score
                  217
E value
                  1.0e-17
Match length
                  101
                   40
% identity
                   (U90439) seven in absentia isolog [Arabidopsis thaliana]
NCBI Description
                  141011
Seq. No.
                  LIB25-085-Q1-E1-C6
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4757414
BLAST score
                  258
E value
                  1.0e-143
Match length
                   258
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MYF24, complete sequence
Seq. No.
                  141012
                  LIB25-085-Q1-E1-D1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3128135
BLAST score
                  146
E value
                  8.0e-77
Match length
                  146
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K19E1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141013
                  LIB25-085-Q1-E1-E12
Seq. ID
```

```
BLAST score
                   270
E value
                   8.0e-24
Match length
                  52.
% identity
NCBI Description
                   (AL049730) polyubiquitin-like protein (fragment)
                   [Arabidopsis thaliana]
                   141014
Seq. No.
Seq. ID
                  LIB25-085-Q1-E1-F1
Method
                  BLASTX
NCBI GI
                   g2244750
BLAST score
                   489
E value
                   2.0e-49
                  109
Match length
                   87
% identity
                   (Z97335) adenosylhomocysteinase [Arabidopsis thaliana]
NCBI Description
                  >gi 3088579 (AF059581) S-adenosyl-L-homocysteine hydrolase
                   [Arabidopsis thaliana]
                  141015
Seq. No.
Seq. ID
                  LIB25-085-Q1-E1-F10
Method
                  BLASTN
NCBI GI
                  g3128166
BLAST score
                  282
E value
                   1.0e-157
                  282
Match length
% identity
                  100
                  Arabidopsis thaliana chromosome II BAC F4I1 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141016
Seq. ID
                  LIB25-085-Q1-E1-F2
Method
                  BLASTN
NCBI GI
                  g1149572
BLAST score
                  183
                   9.0e-99
E value
Match length
                  183
% identity
                  100
                  A.thaliana rpl21 mRNA for chloroplast ribosomal large
NCBI Description
                  subunit protein L21
                  141017
Seq. No.
Seq. ID
                  LIB25-085-Q1-E1-F9
                  BLASTX
Method
NCBI GI
                  g1806146
BLAST score
                  441
                   7.0e-44
E value
Match length
                  108
                  80
% identity
                  (X97317) cdc2MsF [Medicago sativa]
NCBI Description
Seq. No.
                  141018
                  LIB25-085-Q1-E1-G11
Seq. ID
                  BLASTX
Method
                  g730645
NCBI GI
                  282
BLAST score
```

3.0e-25

E value

Seq. No.

Seq. ID

141023

LIB25-086-Q1-E1-A8

```
Match length
                  70
                  84
% identity
                  40S RIBOSOMAL PROTEIN S15 >gi_629556_pir_ S43412 ribosomal
NCBI Description
                  protein S15 - Arabidopsis thaliana >gi_313152 emb CAA80679
                   (Z23161) ribosomal protein S15 [Arabidopsis thaliana]
                  >gi 313188 emb CAA80681 (Z23162) ribosomal protein S15
                   [Arabidopsis thaliana] >gi_1903366_gb_AAB70449 (AC000104)
                  Strong similarity to Oryza 40S ribosomal protein S15. ESTs
                  gb R29788, gb ATTS0365 come from this gene. [Arabidopsis
                  thaliana]
                  141019
Seq. No.
Seq. ID
                  LIB25-085-Q1-E1-G3
Method
                  BLASTX
NCBI GI
                  g2194126
BLAST score
                  304
E value
                  7.0e-28
Match length
                  102
% identity
                  62
                   (AC002062) EST gb T43335 comes from this gene. [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  141020
                  LIB25-085-Q1-E1-G9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2462832
BLAST score
                  637
E value
                  8.0e-67
Match length
                  130
% identity
                  87
NCBI Description
                  (AF000657) similar to Bacillus CotA [Arabidopsis thaliana]
Seq. No.
                  141021
Seq. ID
                  LIB25-085-Q1-E1-H6
Method
                  BLASTX
NCBI GI -
                  g1183004
BLAST score
                  692
E value
                  3.0e-73
Match length
                  133
% identity
                  39
NCBI Description
                  (D45848) calmodulin-related protein [Arabidopsis thaliana]
                  >gi 3402707 (AC004261) calmodulin-related protein
                   [Arabidopsis thaliana]
Seq. No.
                  141022
Seq. ID
                  LIB25-086-Q1-E1-A1
Method
                  BLASTN
NCBI GI
                  g4220637
BLAST score
                  224
E value
                  1.0e-123
Match length
                  224
                  18
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MIE1, complete sequence [Arabidopsis thaliana]
```

```
Method
                  BLASTX
NCBI GI
                  g2102691
BLAST score
                  166
E value
                  4.0e-12
Match length
                  71
% identity
NCBI Description
                  (U64817) fructokinase [Lycopersicon esculentum]
                  141024
Seq. No.
                  LIB25-086-Q1-E1-A9
Seq. ID
Method
                  BLASTN.
NCBI GI
                  q2288979
BLAST score
                  214
                  1.0e-117
E value
Match length
                  214
                  60
% identity
                  Arabidopsis thaliana chromosome II BAC T01024 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  141025
Seq. No.
Seq. ID
                  LIB25-086-Q1-E1-B1
                  BLASTX
Method
                  g2828267
NCBI GI
BLAST score
                  334
                  1.0e-31
E value
                  74
Match length
% identity
                  (Y14044) geranylgeranyl reductase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141026
                  LIB25-086-Q1-E1-B10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2815404
BLAST score
                  206
E value
                  1.0e-112
                  206
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MMG4, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141027
                  LIB25-086-Q1-E1-B11
Seq. ID
Method
                  BLASTX
                  g99752
NCBI GI
BLAST score
                  261
E value
                  3.0e-23
                  54
Match length
                  100
% identity
                  protochlorophyllide reductase (EC 1.3.1.33) precursor -
NCBI Description
                  Arabidopsis thaliana
Seq. No.
                  141028
Seq. ID
                  LIB25-086-Q1-E1-B4
                  BLASTN
Method
                  q4006885
NCBI GI
BLAST score
                  205
                  1.0e-112
E value
```

BLASTX

```
226
 Match length
                     97
 % identity
NCBI Description Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
                     fragment No
                     141029
 Seq. No.
 Seq. ID
                     LIB25-086-Q1-E1-B6
 Method
                     BLASTX
 NCBI GI
                     q2341034
 BLAST score
                     258
 E value
                     6.0e-23
 Match length
                     52
                     100
 % identity
 NCBI Description
                     (AC000104) F19P19.13 [Arabidopsis thaliana]
 Seq. No.
                     141030
                     LIB25-086-Q1-E1-C1
 Seq. ID
 Method
                     BLASTN
 NCBI GI
                     g4539415
 BLAST score
                     47
 E value
                     8.0e-18
 Match length
                     59
                     95
  % identity
                     Arabidopsis thaliana DNA chromosome 4, BAC clone
 NCBI Description
                     project)
 Seq. No.
                     141031
                     LIB25-086-Q1-E1-C2
 Seq. ID
 Method
                     BLASTX
                     g1170121
 NCBI GI
 BLAST score
                     297
 E value
                     2.0e-27
                     59
 Match length
                     100
  % identity
                     GLUTATHIONE S-TRANSFERASE 103-1A >gi_2129602_pir__S66354
 NCBI Description
                     glutathione transferase (EC 2.5.1.18), auxin-inducible -
                     Arabidopsis thaliana >gi_895700_emb_CAA61504_ (X89216) glutathione transferase [Arabidopsis thaliana] >gi_929957
                     (U30489) glutathione S-transferase [Arabidopsis thaliana]
                     >gi_940381_dbj_BAA07917_ (D44465) Glutathione S-Transferase
                     [Arabidopsis thaliana] >gi_3980390 (AC004561) glutathione
                     S-transferase [Arabidopsis thaliana]
 Seq. No.
                     141032
 Seq. ID
                     LIB25-086-Q1-E1-C4
 Method
                     BLASTX
 NCBI GI
                     g3342382
 BLAST score
                     236
 E value
                     3.0e-20
 Match length
                     74
                     61
  % identity
 NCBI Description
                     (AF059678) VIP-receptor-gene repressor protein [Rattus
                     norvegicus]
                     141033
 Seq. No.
                     LIB25-086-Q1-E1-D11
 Seq. ID
```

```
g3513727
NCBI GI
                   351
BLAST score
E value
                   7.0e-34
                   72
Match length
% identity
                   68
                    (AF080118) contains similarity to TPR domains (Pfam:
NCBI Description
                   TPR.hmm: score: 11.15) and kinesin motor domains (Pfam:
                   kinesin2.hmm, score: 17.49, 20.52 and 10.94) [Arabidopsis thaliana] >gi_4539358_emb_CAB40052.1_ (AL049525) putative
                   protein [Arabidopsis thaliana]
                   141034
Seq. No.
Seq. ID
                   LIB25-086-Q1-E1-D12
Method
                   BLASTN
NCBI GI
                   q2832639
BLAST score
                   216
E value
                   1.0e-118
                   216
Match length
                   100
% identity
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F28J12
                    (ESSAII project)
Seq. No.
                   141035
Seq. ID
                   LIB25-086-Q1-E1-D2
Method
                   BLASTX
NCBI GI
                   g256963
                   184
BLAST score
E value
                   3.0e-14
                   69
Match length
% identity
                   64
NCBI Description
                    ($45910) glyceraldehyde-3-phosphate-dehydrogenase subunit
                   GapA {N-terminal} [Arabidopsis thaliana, Peptide
                   Chloroplast Partial, 68 aa] [Arabidopsis thaliana]
                   141036
Seq. No.
Seq. ID
                   LIB25-086-Q1-E1-D3
Method
                   BLASTX
NCBI GI:
                   q4262240
                   364
BLAST score
                   2.0e-35
E value
                   69
Match length
% identity
                   100
                    (AC006200) putative stress protein [Arabidopsis thaliana]
NCBI Description
                   141037
Seq. No.
                   LIB25-086-Q1-E1-D4
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4454004
BLAST score
                   94
E value
                   1.0e-45
                   227
Match length
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F24A6
NCBI Description
                    (ESSAII project)
                   141038
Seq. No.
                   LIB25-086-Q1-E1-D5
Seq. ID
```

```
Method
                  BLASTX
NCBI GI
                  q2943789
BLAST score
                  187
E value
                  1.0e-14
Match length
                  35
% identity
                  100
                  (AB000875) RD22BP1 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141039
                  LIB25-086-Q1-E1-E1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3643588
BLAST score
                  147
                  3.0e-77
E value
Match length
                  212
% identity
                  63
                  Arabidopsis thaliana chromosome II BAC F17H15 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  141040
Seq. No.
                  LIB25-086-Q1-E1-E10
Seq. ID
                  BLASTX
Method
                  g3063459
NCBI GI
BLAST score
                  367
E value
                  1.0e-35
                  71
Match length
% identity
                  96
                   (AC003981) F22013.21 [Arabidopsis thaliana]
NCBI Description
                  141041
Seq. No.
                  LIB25-086-Q1-E1-E2
Seq. ID
Method
                  BLASTN
                  g4063730
NCBI GI
                  227
BLAST score
                  1.0e-125
E value
                  227
Match length
                  100
% identity
                  Arabidopsis thaliana BAC F21J6 from chromosome V,
NCBI Description
                  containing KNAT3 and mapping near 60.5 cM, complete
                  sequence [Arabidopsis thaliana]
                  141042
Seq. No.
                  LIB25-086-Q1-E1-E3
Seq. ID
Method
                  BLASTX
                  g4262179
NCBI GI
                   379
BLAST score
                   4.0e-37
E value
Match length
                  74
                  100
% identity
                   (AC005508) 27668 [Arabidopsis thaliana]
NCBI Description
                  141043
Seq. No.
                  LIB25-086-Q1-E1-F11
Seq. ID
Method
                  BLASTX
                  g1695717
NCBI GI
                  206
BLAST score
                  7.0e-17
E value
```

```
43
Match length
                  100
% identity
                   (D89341) luminal binding protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141044
Seq. ID
                  LIB25-086-Q1-E1-F3
Method
                  BLASTN
NCBI GI
                  g857373
BLAST score
                  222
E value
                  1.0e-122
Match length
                  222
% identity
                  100
NCBI Description
                  Arabidopsis thaliana mRNA for phosphoinositide specific
                  phospholipase C, complete cds
                  141045
Seq. No.
                  LIB25-086-Q1-E1-F5
Seq. ID
Method
                  BLASTN
NCBI GI
                  q1418334
BLAST score
                  179
                  2.0e-96
E value
                  179
Match length
% identity
                  100
NCBI Description
                  A.thaliana mRNA for ZAT11 protein
                  141046
Seq. No.
                  LIB25-086-Q1-E1-F6
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2264317
BLAST score
                  218
E value
                  1.0e-119
                  218
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUG13, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141047
                  LIB25-086-Q1-E1-F8
Seq. ID
Method
                  BLASTN
NCBI GI
                  q1946354
                  198
BLAST score
E value
                  1.0e-107
                  218
Match length
% identity
                  Arabidopsis thaliana chromosome II BAC T06B20 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  141048
Seq. ID
                  LIB25-086-Q1-E1-G1
Method
                  BLASTN
NCBI GI
                  g2351070
                  93
BLAST score
E value
                  5.0e-45
Match length
                  161
                  93
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MTH12, complete sequence [Arabidopsis thaliana]
```

```
141049
Seq. No.
Seq. ID
                   LIB25-086-Q1-E1-G4
Method
                   BLASTX
NCBI GI
                   g544425
BLAST score
                   310
E value
                   6.0e-29
Match length
                   59
% identity
                   100
                   GLYCINE-RICH RNA-BINDING PROTEIN 8 (CCR1 PROTEIN)
NCBI Description
                   >gi 419756_pir__S30148 glycine-rich protein (clone AtGRP8)
                   - Arabidopsis thaliana >gi_16305_emb_CAA78712 (Z14988)
                   glycine rich protein [Arabidopsis thaliana] >gi_166658 (L04171) ORF [Arabidopsis thaliana] >gi_166839 (L00649)
                   RNA-binding protein [Arabidopsis thaliana]
Seq. No.
                   141050
                   LIB25-086-Q1-E1-G5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1350768
BLAST score
                   182
                   5.0e-14
E value
                   33
Match length
                   100
% identity
                   60S RIBOSOMAL PROTEIN L7A
NCBI Description
Seq. No.
                   141051
                   LIB25-086-Q1-E1-G6
Seq. ID
Method
                   BLASTN
                   g4006885
NCBI GI
BLAST score
                   211
E value
                   1.0e-115
Match length
                   219
                   99
% identity
                   Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
NCBI Description
                   fragment No
Seq. No.
                   141052
                   LIB25-086-Q1-E1-H10
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4151924
BLAST score
                   217
E value
                   1.0e-119
Match length
                   217
                   100
% identity
                   Arabidopsis thaliana CYT1 protein (cyt1) mRNA, complete cds
NCBI Description
                   141053
Seq. No.
                   LIB25-086-Q1-E1-H11
Seq. ID
Method
                   BLASTN
                  · g1490552
NCBI GI
BLAST score
                   217
                   1.0e-119
E value
Match length
                   217
                   100
% identity
                   Arabidopsis thaliana S-adenosylmethionine decarboxylase
NCBI Description
```

(SAMdc) mRNA, complete cds

```
141054
Seq. No.
Seq. ID
                   LIB25-086-Q1-E1-H4
Method
                   BLASTN
NCBI GI
                   g3522932
BLAST score
                   111
E value
                   7.0e-56
Match length
                   139
% identity
                   95
                   Arabidopsis thaliana chromosome II BAC F14M4 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141055
Seq. ID
                   LIB25-086-Q1-E1-H6
Method
                   BLASTN
NCBI GI
                   g2224930
BLAST score
                   215
E value
                   1.0e-118
Match length
                   219
% identity
                   100
NCBI Description
                   Arabidopsis thaliana ethylene-insensitive3-like3 (EIL3)
                   mRNA, complete cds
Seq. No.
                   141056
Seq. ID
                   LIB25-087-Q1-E1-A12
Method
                   BLASTX
NCBI GI
                   q3785983
BLAST score
                   300
E value
                   7.0e-28
Match length
                   57
% identity
                    100
NCBI Description
                    (AC005560) hypothetical protein [Arabidopsis thaliana]
                   141057
Seq. No.
Seq. ID
                   LIB25-087-Q1-E1-A9
Method
                   BLASTX
NCBI GI
                   q1168548
BLAST score
                   236
E value
                   2.0e-20
Match length
                    62
                   79
% identity
NCBI Description
                   HOMEOBOX-LEUCINE ZIPPER PROTEIN ATHB-7 (HD-ZIP PROTEIN
                   ATHB-7) >gi_629527_pir__S47137 homeotic protein Athb-7 - Arabidopsis thaliana >gi_499164_emb_CAA47425_ (X67032) orf
                    [Arabidopsis thaliana]
Seq. No.
                   141058
Seq. ID
                   LIB25-087-Q1-E1-B1
Method
                   BLASTX
NCBI GI
                   g3702332
BLAST score
                   186
                   2.0e-14
E value
Match length
                   53
% identity
NCBI Description
                    (AC005397) unknown protein [Arabidopsis thaliana]
Seq. No.
                   141059
```

NCBI GI

```
Seq. ID
                  LIB25-087-Q1-E1-B10
Method
                  BLASTN
NCBI GI
                  q2264307
BLAST score
                  117
E value
                  2.0e-59
Match length
                  213
% identity
                  98
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MED24, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141060
Seq. ID
                  LIB25-087-Q1-E1-B12
Method
                  BLASTN
NCBI GI
                  g166695
BLAST score
                  150
                  5.0e-79
E value
                  170
Match length
                  97
% identity
NCBI Description
                  Arabidopsis thaliana recombination and DNA-damage
                  resistance protein (DRT112) mRNA, complete cds
                  141061
Seq. No.
Seq. ID
                  LIB25-087-Q1-E1-B2
Method
                  BLASTN
NCBI GI
                  q2584827
BLAST score
                  111
E value
                  6.0e-56
Match length
                  145
                  99
% identity
                  Arabidopsis thaliana chromosome 1 BAC F12F1 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  141062
Seq. ID
                  LIB25-087-Q1-E1-D10
Method
                  BLASTN
NCBI GI
                  g1495268
BLAST score
                  181
E value
                  1.0e-97
Match length
                  181
                  100
% identity
                  A.thaliana mRNA (orf19) from chromosome III
NCBI Description
Seq. No.
                  141063
Seq. ID
                  LIB25-087-Q1-E1-D12
Method
                  BLASTN
                  g3327922
NCBI GI
BLAST score
                  207
E value
                  1.0e-113
Match length
                  207
% identity
                  100
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T31E10 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141064
                  LIB25-087-Q1-E1-D7
Seq. ID
Method
                  BLASTN
```

g4159706

Seq. ID

```
109
BLAST score
                  8.0e-55
E value
                  137
Match length
% identity
                  99
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MGL6, complete sequence
                  141065
Seq. No.
Seq. ID
                  LIB25-087-Q1-E1-E10
Method
                  BLASTX
NCBI GI
                  q1168200
BLAST score
                  176
E value
                  2.0e-13
                  36
Match length
                  100
% identity
                  14-3-3-LIKE PROTEIN GF14 PSI (14-3-3-LIKE PROTEIN RCI1)
NCBI Description
                  >gi 1361988 pir S57277 GF14 protein psi chain -
                  Arabidopsis thaliana >gi_166717 (L09110) GF14 psi chain
                  [Arabidopsis thaliana] >gi_487789 (U09375) GF14psi isoform
                  [Arabidopsis thaliana]
Seq. No.
                  141066
                  LIB25-087-Q1-E1-E11
Seq. ID
Method
                  BLASTX
                  g1710401
NCBI GI
BLAST score
                  344.
                  5.0e-33
E value
                  70
Match length
                  91
% identity
                  RIBONUCLEOSIDE-DIPHOSPHATE REDUCTASE SMALL CHAIN
NCBI Description
                  (RIBONUCLEOTIDE REDUCTASE) (R2 SUBUNIT)
                  >gi 1044912_emb_CAA63194_ (X92443) ribonucleotide reductase
                  R2 [Nicotiana tabacum]
                  141067
Seq. No.
                  LIB25-087-Q1-E1-E3
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2618605
BLAST score
                  136
                  8.0e-71
E value
                  152
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUK11, complete sequence [Arabidopsis thaliana]
                  141068
Seq. No.
                  LIB25-087-Q1-E1-F10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2894599
                  139
BLAST score
                  5.0e-09
E value
Match length
                  44
                  61
% identity
                  (AL021889) putative protein [Arabidopsis thaliana]
NCBI Description
                  141069
Seq. No.
```

LIB25-087-Q1-E1-F3

NCBI GI

```
Method
                  BLASTX
NCBI GI
                  g1109600
BLAST score
                  241
                  6.0e-21
E value
Match length
                  43
                  100
% identity
                   (D16628) ATsEH [Arabidopsis thaliana] >gi 2760840
NCBI Description
                   (AC003105) soluble epoxide hydrolase [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB25-087-Q1-E1-G12
Method
                  BLASTN
NCBI GI
                  q4220633
BLAST score
                  158
E value
                  8.0e-84
                  158
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description.
                  K7J8, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141071
                  LIB25-087-Q1-E1-G8
Seq. ID
Method
                  BLASTN
                  g4220635
NCBI GI
BLAST score
                  124
E value
                  1.0e-63
                  140
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MDB19, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141072
                  LIB25-087-Q1-E1-H10
Seq. ID
Method
                  BLASTN
                  g2656028
NCBI GI
BLAST score
                  101
                  8.0e-50
E value
Match length
                  183
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MNF13
Seq. No.
                  141073
                  LIB25-087-Q1-E1-H11
Seq. ID
Method
                  BLASTN
                  g4538949
NCBI GI
BLAST score
                  211
E value
                  1.0e-115
Match length
                  211
% identity
                  100
                  Arabidopsis thaliana DNA chromosome 4, BAC clone
NCBI Description
                   (ESSA project)
Seq. No.
                  141074
Seq. ID
                  LIB25-087-Q1-E1-H12
Method
                  BLASTX
```

q4539292

```
BLAST score
                   261
                   3.0e-23
E value
Match length
                   52
                   90
% identity
                   (AL049480) putative ribosomal protein S10 [Arabidopsis
NCBI Description
                   thaliana]
                   141075
Seq. No.
Seq. ID
                   LIB25-087-Q1-E1-H3
Method
                   BLASTN
NCBI GI
                   g4689466
BLAST score
                   136
E value
                   9.0e-71
                   152
Match length
                   29
% identity
NCBI Description
                   Arabidopsis thaliana chromosome II BAC T23015 genomic
                   sequence, complete sequence
Seq. No.
                   141076
Seq. ID
                   LIB25-088-Q1-E1-A8
Method
                   BLASTN
NCBI GI
                   g3687221
BLAST score
                   154
E value
                   3.0e-81
Match length
                   289
% identity
                   100
                   Arabidopsis thaliana chromosome II BAC F6F22 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141077
Seq. ID
                   LIB25-088-Q1-E1-B9
Method
                   BLASTX
NCBI GI
                   g1076303
BLAST score
                   483
E value
                   1.0e-48
Match length
                   112
                   87
% identity
NCBI Description
                   RNA-binding protein cp29 precursor - Arabidopsis thaliana
                   >gi_681902_dbj_BAA06518_ (D31710) cp29 [Arabidopsis
                   thaliana]
Seq. No.
                   141078
Seq. ID
                   LIB25-088-Q1-E1-C1
Method
                   BLASTX
NCBI GI
                   g4559381
BLAST score
                   235
E value
                   1.0e-19
Match length
                   135
% identity
                   44
NCBI Description
                   (AC006526) hypothetical protein [Arabidopsis thaliana]
Seq. No.
                   141079
Seq. ID
                  LIB25-088-Q1-E1-C10
Method
                  BLASTX
NCBI GI
                   g2119846
BLAST score
                  632
E value
                   3.0e-66
```

NCBI GI

```
Match length
                  122
% identity
                  98
                  chlorophyll a/b-binding protein type I precursor Lhb1B2 -
NCBI Description
                  Arabidopsis thaliana >gi_16364_emb_CAA45790_ (X64460)
                  photosystem II type I chlorophyll a /b binding protein
                  [Arabidopsis thaliana] >gi_3128230 (AC004077) photosystem
                  II type I chlorophyll a/b \overline{b}inding protein [Arabidopsis
                  thaliana] >gi_3337371 (AC004481) photosystem II type I
                  chlorophyll a/b binding protein [Arabidopsis thaliana]
Seq. No.
                  141080
Seq. ID
                  LIB25-088-Q1-E1-C11
Method
                  BLASTN
                  g166695 ·
NCBI GI
BLAST score
                  49
E value
                  1.0e-19
                  49
Match length
                  100
% identity
                  Arabidopsis thaliana recombination and DNA-damage
NCBI Description
                  resistance protein (DRT112) mRNA, complete cds
Seq. No.
                  141081
                  LIB25-088-Q1-E1-C8
Seq. ID
                  BLASTN
Method
                  g4103242
NCBI GI
BLAST score
                  75
E value
                  1.0e-34
                  99
Match length
                  94
% identity
NCBI Description Arabidopsis thaliana BIPOSTO (BIP) mRNA, complete cds
                  141082
Seq. No.
                  LIB25-088-Q1-E1-E8
Seq. ID
                  BLASTN
Method
                  g4235150
NCBI GI
                  348
BLAST score
                  0.0e + 00
E value
Match length
                  376
                  55
% identity
                  Arabidopsis thaliana chromosome I BAC T25B24 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  141083
                  LIB25-088-Q1-E1-F3
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2351064
BLAST score
                  57
E value
                  7.0e-24
                  93
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MDJ22, complete sequence [Arabidopsis thaliana]
                  141084
Seq. No.
                  LIB25-089-Q1-E1-A9
Seq. ID
                  BLASTN
Method
```

g2288979

```
BLAST score
                   159
                   3.0e-84
E value
Match length
                   306
                   96
% identity
                  Arabidopsis thaliana chromosome II BAC T01024 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141085
                  LIB25-089-Q1-E1-D11
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1742961
BLAST score
                   641
E value
                   3.0e-67
Match length
                   132
                   96
% identity
                   (X94756) cystathionine gamma-synthase [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   141086
                   LIB25-089-Q1-E1-D12
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4038034
BLAST score
                   341
E value
                   4.0e-32
Match length
                   81
% identity
NCBI Description
                   (AC005936) unknown protein [Arabidopsis thaliana]
Seq. No.
                   141087
Seq. ID
                   LIB25-089-Q1-E1-E1
Method
                   BLASTX
NCBI GI
                   g3176874
BLAST score
                   162
E value
                   1.0e-11
Match length
                   45
% identity
                   69
NCBI Description
                   (AF065639) cucumisin-like serine protease [Arabidopsis
                  thaliana]
                   141088
Seq. No.
Seq. ID
                   LIB25-089-Q1-E1-G2
Method
                   BLASTN
NCBI GI
                   g4159704
BLAST score
                   97
E value
                   1.0e-47
Match length
                   117
% identity
                   96
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MCB17, complete sequence
                   141089
Seq. No.
Seq. ID
                   LIB25-090-Q1-E1-A10
Method
                   BLASTN
NCBI GI
                   g3869071
BLAST score
                   173
E value
                   2.0e-92
Match length
                   317
```

```
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                   MIL23, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141090
Seq. ID
                   LIB25-090-Q1-E1-A11
Method
                   BLASTX
NCBI GI
                   g2492681
BLAST score
                   304
E value
                   1.0e-27
Match length
                   137
                   43
% identity
                   PROBABLE COATOMER BETA SUBUNIT (BETA-COAT PROTEIN)
NCBI Description
                   (BETA-COP) >gi 1432173 (U62960) CopB [Dictyostelium
                   discoideum]
Seq. No.
                   141091
Seq. ID
                   LIB25-090-Q1-E1-A3
Method
                   BLASTN
NCBI GI
                   q2264317
BLAST score
                   97
E value
                   3.0e-47
                   278
Match length
% identity
                   99
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MUG13, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141092
Seq. ID
                   LIB25-090-Q1-E1-B7
Method
                   BLASTN
NCBI GI
                   q3128141
BLAST score
                   327
E value
                   0.0e + 00
Match length
                   399
                   100
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MQD22, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141093
Seq. ID
                   LIB25-090-01-E1-C1
Method
                   BLASTX
NCBI GI
                   q3482933
BLAST score
                   448
E value
                   8.0e-45
Match length
                   100
% identity
NCBI Description
                   (AC003970) Similar to cdc2 protein kinases [Arabidopsis
                   thalianal
                   141094
Seq. No.
Seq. ID
                   LIB25-090-Q1-E1-D9
                                                  <u> 4</u>
Method
                   BLASTX
NCBI GI
                   a730645
BLAST score
                   589
E value
                   4.0e-61
Match length
                   130
% identity
                   91
```

NCBI GI BLAST score

```
NCBI Description 40S RIBOSOMAL PROTEIN S15 >gi 629556 pir S43412 ribosomal
                  protein S15 - Arabidopsis thaliana >gi 313152 emb CAA80679
                  (Z23161) ribosomal protein S15 [Arabidopsis thaliana]
                  >gi_313188_emb_CAA80681_ (Z23162) ribosomal protein S15
                  [Arabidopsis thaliana] >gi_1903366_gb_AAB70449_ (AC000104)
                  Strong similarity to Oryza 40S ribosomal protein S15. ESTs
                  gb R29788, gb ATTS0365 come from this gene. [Arabidopsis
                  thaliana]
Seq. No.
                  141095
                  LIB25-090-Q1-E1-E4
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4753195
BLAST score
                  74
E value
                  9.0e-34
Match length
                  147
% identity
                  100
                  Arabidopsis thaliana BAC F15A18 from chromosome V near 68.5
NCBI Description
                  cM, complete sequence
Seq. No.
                  141096
Seq. ID
                  LIB25-090-Q1-E1-F12
Method
                  BLASTN
NCBI GI
                  q3292807
BLAST score
                  179
E value
                  4.0e-96
Match length
                  351
% identity
                  100
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F7H19
                  (ESSAII project)
                  141097
Seq. No.
Seq. ID
                  LIB25-090-Q1-E1-G11
Method
                  BLASTX
NCBI GI
                  q2746341
BLAST score
                  488
E value
                  3.0e-49
Match length
                  132
% identity
                  68
                  (AF037590) ATA27 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141098
Seq. ID
                  LIB25-090-Q1-E1-G3
Method
                  BLASTN
NCBI GI
                  g2924733
BLAST score
                  131
E value
                  2.0e-67
Match length
                  405
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUF9, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141099
                  LIB25-090-Q1-E1-G7
Seq. ID
Method
                  BLASTN
```

g2351061

158

```
2.0e-83
E value
                  418
100
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MAF19, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141100
Seq. ID
                  LIB25-091-Q1-E1-A6
Method
                  BLASTN
NCBI GI
                  q3386593
BLAST score
                  39
                  1.0e-12
E value
Match length
                  59
% identity
                  92
                  Arabidopsis thaliana chromosome II BAC F4I18 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB25-091-Q1-E1-B11
Method
                  BLASTX
NCBI GI
                  q280386
BLAST score
                  317
E value
                  2.0e-29
Match length
                  59
% identity
                  100
                  ubiquitin / ribosomal protein CEP52 - Arabidopsis thaliana
NCBI Description
                  >gi 166930 (J05507) ubiquitin extension protein (UBQ1)
                   [Arabidopsis thaliana] >gi 166932 (J05508) ubiquitin
                  extension protein (UBQ2) [Arabidopsis thaliana]
                  >gi 4678227 gb_AAD26972.1 AC007135 8 (AC007135)
                  ubiquitin/ribosomal protein CEP52 [Arabidopsis thaliana]
Seq. No.
                  141102
Seq. ID
                  LIB25-091-Q1-E1-B3
Method
                  BLASTX
NCBI GI
                  q2119846
BLAST score
                  522
                  2.0e-53
E value
Match length
                  102
% identity
NCBI Description
                  chlorophyll a/b-binding protein type I precursor Lhb1B2 -
                  Arabidopsis thaliana >gi_16364_emb_CAA45790_ (X64460)
                  photosystem II type I chlorophyll a /b binding protein
                   [Arabidopsis thaliana] >gi 3128230 (AC004077) photosystem
                  II type I chlorophyll a/b binding protein [Arabidopsis
                  thaliana] >gi 3337371 (AC004481) photosystem II type I
                  chlorophyll a/b binding protein [Arabidopsis thaliana]
Seq. No.
                  141103
                  LIB25-091-Q1-E1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4725941
                  288
BLAST score
E value
                  6.0e-26
Match length
                  55
% identity
                  100
NCBI Description
                  (AL049730) putative pollen-specific protein [Arabidopsis
```

#### thaliana] Seq. No. 141104 Seq. ID LIB25-091-Q1-E1-B8 Method BLASTN NCBI GI g4757403 BLAST score 164 E value 4.0e-87 Match length 324 % identity 100 Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone: NCBI Description MJL12, complete sequence Seq. No. 141105 LIB25-091-Q1-E1-C1 Seq. ID Method BLASTN NCBI GI g2244829 BLAST score 282 E value 1.0e-157 Match length 282 100 % identity NCBI Description Arabidopsis thaliana DNA chromosome 4, ESSA I contig fragment No Seq. No. 141106 Seq. ID LIB25-091-Q1-E1-D11 Method BLASTN NCBI GI q2264314 BLAST score 243 E value 1.0e-134 Match length 359 98 % identity Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MQK4, complete sequence [Arabidopsis thaliana] Seq. No. 141107 Seq. ID LIB25-091-Q1-E1-D12 Method **BLASTX** NCBI GI q4204295 BLAST score 623 E value 3.0e-65

Seq. No. 141108 Seq. ID LIB25-

Match length

NCBI Description

: % identity

Seq. ID LIB25-091-Q1-E1-D6 Method BLASTN

117 99

[Arabidopsis thaliana]

NCBI GI g4220641
BLAST score 144
E value 2.0e-75
Match length 165
% identity 96

NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:

MUL3, complete sequence [Arabidopsis thaliana]

(AC003027) 1cl prt seq No definition line found

Seq. ID

```
141109
Seq. No.
Seq. ID.
                   LIB25-091-Q1-E1-G10
Method
                   BLASTX
NCBI GI
                   g2129538
BLAST score
                   331
                   6.0e-31
E value
Match length
                   64
% identity
                   100
                   AT103 protein - Arabidopsis thaliana >gi_1033195 (U38232)
NCBI Description
                   AT103 [Arabidopsis thaliana]
                   141110
Seq. No.
                   LIB25-091-Q1-E1-G9
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1644291
BLAST score
                   140
                   1.0e-08
E value
Match length
                   105
% identity
                   36
                   (Z73295) receptor-like protein kinase [Catharanthus roseus]
NCBI Description
                   141111
Seq. No.
Seq. ID
                   LIB25-092-Q1-E1-A1
Method
                   BLASTX
                   q541848 ·
NCBI GI
BLAST score
                   385
                   8.0e-38
E value
Match length
                   73
                   100
% identity
                   amino acid transport protein I - Arabidopsis thaliana
NCBI Description
                   >gi_22641_emb_CAA47603_ (X67124) amino acid permease I [Arabidopsis thaliana] >gi_404019 (L16240) amino acid
                   transporter [Arabidopsis thaliana]
                   141112
Seq. No.
Seq. ID
                   LIB25-092-Q1-E1-A11
Method
                   BLASTN
                   q559399
NCBI GI
                   145
BLAST score
                    4.0e-76
E value
Match length
                   145
% identity
                   100
                   A.thaliana PP1bg gene encoding protein phosphatase
NCBI Description
                   141113
Seq. No.
                   LIB25-092-Q1-E1-A8
Seq. ID
Method
                   BLASTN
NCBI GI
                   q4220638
BLAST score
                   180
                    6.0e-97
E value
                   210
Match length
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MIF21, complete sequence [Arabidopsis thaliana]
                   141114
Seq. No.
```

LIB25-092-Q1-E1-A9

E value

5.0e-51

```
Method
                  BLASTX
NCBI GI
                  g1800223
BLAST score
                  137
E value
                   9.0e-09
                  50
Match length
                   50
% identity
                  (U65018) mannosyltransferase [Dictyostelium discoideum]
NCBI Description
Seq. No.
                   141115
                  LIB25-092-Q1-E1-B1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2924732
BLAST score
                  47
E value
                   1.0e-17
                  119
Match length
                   92
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUA2, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141116
                  LIB25-092-Q1-E1-B12
Seq. ID
Method
                  BLASTN
NCBI GI
                   g4049332
BLAST score
                  113
E value
                   5.0e-57
Match length
                  180
% identity
                   100
                  Arabidopsis thaliana DNA chromosome 4, BAC clone
NCBI Description
                   (ESSAII project)
Seq. No.
                   141117
                   LIB25-092-Q1-E1-B4
Seq. ID
Method
                  BLASTN
NCBI GI
                   q4678371
BLAST score
                   166
E value
                   1.0e-88
                  215
Match length
% identity
                   43
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T6G15
NCBI Description
                   (ESSA project)
Seq. No.
                   141118
                  LIB25-092-Q1-E1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                   g2245062
BLAST score
                  286
E value
                   3.0e-26
                  59
Match length
% identity
                   100
                   (Z97342) hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   141119
                  LIB25-092-Q1-E1-B7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2264302
                  103
BLAST score
```

```
Match length
                   220
% identity
                   100
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MAC12, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141120
Seq. ID
                  LIB25-092-Q1-E1-B8
Method
                  BLASTN
NCBI GI
                  g17681
BLAST score
                  25
E value
                   8.0e-05
Match length
                  77
% identity
                   94
                  A.thaliana mRNA for Wilm's tumor suppressor homologue
NCBI Description
                  141121
Seq. No.
                  LIB25-092-Q1-E1-B9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4586024
BLAST score
                   69
E value
                   9.0e-31
Match length
                  172
                   100
% identity
                  Arabidopsis thaliana chromosome II BAC T13C7 genomic
NCBI Description
                   sequence, complete sequence
Seq. No.
                   141122
                  LIB25-092-Q1-E1-C10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4538949
BLAST score
                  193
E value
                   1.0e-105
                  193
Match length
% identity
                   100
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F24G24
                   (ESSA project)
Seq. No.
                  141123
Seq. ID
                  LIB25-092-Q1-E1-C11
Method
                  BLASTN
NCBI GI
                  g2864607
BLAST score
                  120
E value
                   3.0e-61
Match length
                  190
                   100
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F10M6
                   (ESSAII project)
Seq. No.
                  141124
Seq. ID
                  LIB25-092-Q1-E1-C3
Method
                  BLASTN
NCBI GI
                  g4220468
BLAST score
                  217
                  1.0e-119
E value
Match length
                  217
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T8011 genomic
```

#### sequence, complete sequence [Arabidopsis thaliana] Seq. No. 141125 Seq. ID LIB25-092-Q1-E1-C5 Method BLASTN NCBI GI g3132469 217 BLAST score 1.0e-119 E value Match length 217 % identity 100 Arabidopsis thaliana chromosome II BAC T29F13 genomic NCBI Description sequence, complete sequence [Arabidopsis thaliana] 141126 Seq. No. LIB25-092-Q1-E1-C7 Seq. ID Method BLASTX q4490732 NCBI GI 388 BLAST score 3.0e-38 E value 71 Match length 100 % identity (AL035709) phosphoenolpyruvate carboxykinase (ATP)-like NCBI Description protein [Arabidopsis thaliana] 141127 Seq. No. Seq. ID LIB25-092-Q1-E1-D10 Method BLASTN g4159707 NCBI GI 194 BLAST score 1.0e-105 E value 194 Match length 100 % identity Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone: NCBI Description MJK13, complete sequence 141128 Seq. No. Seq. ID LIB25-092-Q1-E1-D11 Method BLASTN NCBI GI g2924733 BLAST score 149 2.0e-78 E value 149 Match length 100 % identity Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MUF9, complete sequence [Arabidopsis thaliana] 141129 Seq. No. Seq. ID LIB25-092-Q1-E1-D2 BLASTX Method NCBI GI g832876 BLAST score 251 4.0e-22 E value 55 Match length % identity (L41345) ascorbate free radical reductase [Solanum NCBI Description

radical reductase [Lycopersicon esculentum]

lycopersicum] >gi\_1097368\_prf\_\_2113407A ascorbate free

```
141130
Seq. No.
                  LIB25-092-Q1-E1-D3.
Seq. ID
                  BLASTX
Method
                  g267073
NCBI GI
                  254
BLAST score
                  2.0e-22
E value
Match length
                  46
% identity
                  100
                  TUBULIN BETA-2/BETA-3 CHAIN >gi_320184_pir__JQ1587_tubulin
NCBI Description
                  beta chain - Arabidopsis thaliana >gi 166898 (M84700)
                  beta-2 tubulin [Arabidopsis thaliana] >gi 166900 (M84701)
                  beta-3 tubulin [Arabidopsis thaliana]
Seq. No.
                  141131
                  LIB25-092-Q1-E1-D4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g1871173
BLAST score
                  216
                  1.0e-118
E value
                  216
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC T06D20 genomic
NCBI Description
                  sequence, complete sequence
                                                  43
Seq. No.
                  141132
                  LIB25-092-Q1-E1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1351272
BLAST score
                  362
E value
                  4.0e-35
Match length
                  71
                  100
% identity
                  TRIOSEPHOSPHATE ISOMERASE, CYTOSOLIC (TIM) >gi_414550
NCBI Description
                   (U02949) cytosolic triose phosphate isomerase [Arabidopsis
                  thaliana] >gi 742408 prf 2009415A triose phosphate
                  isomerase [Arabidopsis thaliana]
Seq. No.
                  141133
                  LIB25-092-Q1-E1-D6
Seq. ID
Method
                  BLASTX
                  g3250679
NCBI GI
BLAST score
                  243
                  3.0e-21
E value
Match length
                  43
% identity
                  100
                  (AL024486) putative protein [Arabidopsis thaliana]
NCBI Description
                  141134
Seq. No.
                  LIB25-092-Q1-E1-D7
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2924733
                  151
BLAST score
                  1.0e-79
E value
Match length
                  216
                  100
% identity
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
```

Seq. No.

141140

### MUF9, complete sequence [Arabidopsis thaliana] Seq. No. 141135 Seq. ID LIB25-092-Q1-E1-D8 ` Method BLASTX NCBI GI g4678328 BLAST score 370 E value 4.0e-36 Match length 70 % identity 100 (AL049658) aldehyde dehydrogenase (NAD+)-like protein NCBI Description [Arabidopsis thaliana] Seq. No. 141136 Seq. ID LIB25-092-Q1-E1-D9 Method BLASTN NCBI GI g2351063 BLAST score 156 E value 1.0e-82 Match length 177 96 % identity NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MCL19, complete sequence [Arabidopsis thaliana] 141137 Seq. No. Seq. ID LIB25-092-Q1-E1-E10 Method BLASTX NCBI GI q3021336 BLAST score 265 E value 9.0e-24 Match length 59 % identity NCBI Description (AJ224957) RGA-like [Arabidopsis thaliana] 141138 Seq. No. Seq. ID LIB25-092-Q1-E1-E11 Method BLASTX NCBI GI g2462746 BLAST score 186 E value 2.0e-14 Match length 40 % identity NCBI Description (AC002292) Similar to ATP-citrate-lyase [Arabidopsis thaliana] Seq. No. 141139 Seq. ID LIB25-092-Q1-E1-E12 Method BLASTN NCBI GI q4510323 BLAST score 192 E value 1.0e-104 Match length 192 % identity NCBI Description Arabidopsis thaliana BAC T7B11 from chromosome IV near 10 cM, complete sequence

```
LIB25-092-Q1-E1-E4
Seq. ID
                  BLASTN
Method
                  g4581084
NCBI GI
BLAST score
                  140
                  4.0e-73
E value
                  171
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome I BAC T30F21 genomic
NCBI Description
                  sequence, complete sequence
                  141141
Seq. No. .
                  LIB25-092-Q1-E1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2500193
                  199
BLAST score
                  5.0e-16
E value
                  43
Match length
                  93
% identity
                  RAC-LIKE GTP BINDING PROTEIN ARAC4 (GTP BINDING PROTEIN
NCBI Description
                  ROP2) >gi_1304417 (U45236) Description: rac-like protein;
                  GTP binding protein; Method: conceptual translation
                  supplied by author. [Arabidopsis thaliana] >gi 1777764
                  (U49972) GTP binding protein Rop2At [Arabidopsis thaliana]
Seq. No.
                  141142
                  LIB25-092-Q1-E1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q166867
BLAST score
                  272
E value
                  1.0e-24
                  70
Match length
                  79
% identity
                  (J05216) ribosomal protein S11 (probable start codon at bp
NCBI Description
                  67) [Arabidopsis thaliana]
Seq. No.
                  141143
                  LIB25-092-Q1-E1-E9
Seq. ID
Method
                  BLASTX
                  q4741952
NCBI GI
BLAST score
                  178
E value
                  1.0e-13
                  37
Match length
                  100
% identity
                  (AF134126) Lhcb3 protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141144
Seq. ID
                  LIB25-092-Q1-E1-F4
                  BLASTN
Method
                  g2924651
NCBI GI
BLAST score
                  134
                  2.0e-69
E value
Match length
                  155
                  95
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K2A18, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141145
```

```
LIB25-092-Q1-E1-F5
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3668073
BLAST score
                  80
E value
                   3.0e-37
                   216
Match length
                   100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T4C15 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141146
                   LIB25-092-Q1-E1-F8
Seq. ID
Method
                  BLASTN
NCBI GI
                   q2832358
BLAST score
                   137
E value
                   3.0e-71
Match length
                   141
% identity
                   99
NCBI Description Arabidopsis thaliana mRNA for HMG betal protein
                   141147
Seq. No.
Seq. ID
                  LIB25-092-Q1-E1-G11
Method
                  BLASTX
NCBI GI
                   q1708312
BLAST score
                   174
E value
                   4.0e-13
Match length
                   36
                   100
% identity
NCBI Description HEAT SHOCK PROTEIN 81-1 (HSP81-1) (HEAT SHOCK PROTEIN 83)
Seq. No.
                   141148
Seq. ID
                  LIB25-092-Q1-E1-G2
Method
                  BLASTN
NCBI GI
                   q4539309
BLAST score
                   192
E value
                   1.0e-104
Match length
                  219
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F19H22
                   (ESSA project)
Seq. No.
                   141149
Seq. ID
                  LIB25-092-Q1-E1-G4
Method
                  BLASTX
NCBI GI
                   q295792
BLAST score
                   416
E value
                   2.0e-41
Match length
                  72
% identity
                   100
NCBI Description
                   (X13611) ribulose bisphosphate carboxylase [Arabidopsis
                  thaliana]
Seq. No.
                   141150
Seq. ID
                  LIB25-092-Q1-E1-G5
Method
                  BLASTN
NCBI GI
                  g4741959
BLAST score
                  177
```

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```
E value
                   4.0e-95
Match length
                   207
% identity
                   96
                   Arabidopsis thaliana Lhcb6 protein (Lhcb6) mRNA, complete
NCBI Description
                   cds
Seq. No.
                   141151
Seq. ID
                   LIB25-092-Q1-E1-G6
Method
                   BLASTN
NCBI GI
                   q1877523
BLAST score
                   115
E value
                   4.0e-58
Match length
                   188
% identity
                   73
                   Arabidopsis thaliana BAC T7I23, complete sequence
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   141152
Seq. ID
                   LIB25-092-Q1-E1-G8
Method
                   BLASTN
NCBI GI
                   g3985931
BLAST score
                   97
E value
                   2.0e-47
Match length
                   208
% identity
                   100
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K21H1, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141153
                   LIB25-092-Q1-E1-G9
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2760167
BLAST score
                   136
                   9.0e-71
E value
Match length
                   184
% identity
                   100
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MCO15, complete sequence [Arabidopsis thaliana]
                   141154
Seq. No.
                   LIB25-092-Q1-E1-H1
Seq. ID
                   BLASTX
Method
                   g4741952
NCBI GI
BLAST score
                   247
                   1.0e-21
E value
Match length
                   48
% identity
                   (AF134126) Lhcb3 protein [Arabidopsis thaliana]
NCBI Description
                   141155
Seq. No.
                   LIB25-092-Q1-E1-H10
Seq. ID
Method 🥠
                   BLASTX
NCBI GI
                   g3785989
BLAST score
                   200
E value
                   4.0e-16
Match length
                   63
% identity
                   62
```

NCBI GI

```
NCBI Description (AC005560) unknown protein [Arabidopsis thaliana]
                    141156
Seq. No.
                   LIB25-092-Q1-E1-H12
Seq. ID
Method
                   BLASTX
NCBI GI
                    g131381
BLAST score
                    311
E value
                    4.0e-29
Match length
                    63
% identity
                    100
                   OXYGEN-EVOLVING ENHANCER PROTEIN 1 PRECURSOR (OEE1) (33 KD
NCBI Description
                    SUBUNIT OF OXYGEN EVOLVING SYSTEM OF PHOTOSYSTEM II) (33 KD
                    THYLAKOID MEMBRANE PROTEIN) >gi 99745 pir S11852
                   photosystem II oxygen-evolving complex protein 1 precursor
                    - Arabidopsis thaliana >qi 22571 emb CAA36675 (X52428) 33
                    kDa oxygen-evolving protein [Arabidopsis thaliana]
                    141157
Seq. No.
                   LIB25-092-Q1-E1-H2
Seq. ID
Method
                    BLASTX
                    q1755164
NCBI GI
BLAST score
                    258
E value
                    6.0e-23
Match length
                    66
                    76
% identity
                    (U75193) germin-like protein [Arabidopsis thaliana]
NCBI Description
                   >gi_1755168 (U75195) germin-like protein [Arabidopsis
thaliana] >gi_2239042_emb_CAA73213_ (Y12673) GLP3 protein
[Arabidopsis thaliana] >gi_4666250_dbj_BAA77208.1_ (D89374)
                    germin-like protein 2 precursor [Arabidopsis thaliana]
                    141158
Seq. No.
Seq. ID
                    LIB25-092-Q1-E1-H3
Method
                    BLASTN
NCBI GI
                    q16375
BLAST score
                    157
E value
                    3.0e-83
Match length
                    157
                    100
% identity
                   A.thaliana gene (LHCP AB 140) for chlorophyll a/b binding
NCBI Description
                    protein
Seq. No.
                    141159
                    LIB25-092-Q1-E1-H5
Seq. ID
Method
                    BLASTN
NCBI GI
                    g4490324
BLAST score
                    209
E value
                    1.0e-114
                    209
Match length
% identity
                    100
                   Arabidopsis thaliana DNA chromosome 4, BAC clone T9A14
NCBI Description
                    (ESSA project)
Seq. No.
                    141160
                    LIB25-092-Q1-E1-H8
Seq. ID
Method
                    BLASTX
```

q1346702

179 BLAST score E value 1.0e-13 Match length 46 % identity 83 EXOPOLYGALACTURONASE CLONE GBGA483 PRECURSOR (EXOPG) NCBI Description (PECTINASE) (GALACTURAN 1,4-ALPHA-GALACTURONIDASE) >qi 421832 pir S34200 exopolygalacturonase (clone GBGa483) - Arabidopsis thaliana >gi 313684 emb\_CAA51033\_ (X72292) exopolygalacturonase [Arabidopsis thaliana] 141161 Seq. No. LIB25-093-Q1-E1-A3 Seq. ID BLASTN Method g4733957 NCBI GI 195 BLAST score 1.0e-106 E value 203 Match length 100 % identity Arabidopsis thaliana chromosome II BAC T26C18 genomic NCBI Description sequence, complete sequence Seq. No. 141162 Seq. ID LIB25-093-Q1-E1-A5 Method BLASTN NCBI GI q4056476 197 BLAST score E value 1.0e-107 197 Match length 100 % identity Arabidopsis thaliana chromosome II BAC F3G5 genomic NCBI Description sequence, complete sequence [Arabidopsis thaliana] Seq. No. 141163 Seq. ID LIB25-093-Q1-E1-A6 Method BLASTN NCBI GI g2854069 BLAST score 131 9.0e-68 E value 139 Match length 99 % identity Arabidopsis thaliana putative histone deacetylase (HD2) NCBI Description mRNA, complete cds 141164 Seq. No. Seq. ID LIB25-093-Q1-E1-A8 Method BLASTN

NCBI GI g2459406
BLAST score 179
E value 2.0e-96
Match length 179
% identity 100

NCBI Description Arabidopsis thaliana chromosome II BAC F4P9 genomic sequence, complete sequence [Arabidopsis thaliana]

sequence, complete sequence (Alabidopsis thatiand

Seq. No. 141165

Seq. ID LIB25-093-Q1-E1-A9

Method BLASTN

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NCBI GI

g4105794

```
NCBI GI
                  g4835223
BLAST score
                  131
E value
                  9.0e-68
Match length
                  175
% identity
                  100
                  Arabidopsis thaliana DNA chromosome 3, BAC clone F18B3
NCBI Description
                  (ESSA project)
                  141166
Seq. No.
Seq. ID
                  LIB25-093-Q1-E1-B3
Method
                  BLASTN
                  g3399678
NCBI GI
BLAST score
                  144
                  2.0e-75
E value
                  197
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome 1 BAC F13M7 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  141167
Seq. No.
                  LIB25-093-Q1-E1-B4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2118222
BLAST score
                  231
                  9.0e-20
E value
                  62.
Match length
                  77
% identity
                  H+-transporting ATPase (EC 3.6.1.35), vacuolar, 16K chain
NCBI Description
                  (clone AVA-P4) - Arabidopsis thaliana >gi_926935 (L44584)
                  vacuolar H+-pumping ATPase 16 kDa proteolipid (Arabidopsis
                  thaliana]
                  141168
Seq. No.
                  LIB25-093-Q1-E1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1076678
                  213
BLAST score
                  1.0e-17
E value
                  51
Match length
% identity
                  ubiquitin / ribosomal protein S27a - potato (fragment)
NCBI Description
                  141169
Seq. No.
Seq. ID
                  LIB25-093-Q1-E1-B7
Method
                  BLASTN
NCBI GI
                  g3128143
BLAST score
                  130
                  4.0e-67
E value
Match length
                  186
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MTI20, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141170
                  LIB25-093-Q1-E1-B9
Seq. ID
Method
                  BLASTX
```

```
BLAST score
                  191
                   4.0e-15
E value
Match length
                   40
% identity
                   68
NCBI Description
                   (AF049928) PGP224 [Petunia x hybrida]
Seq. No.
                  141171
                  LIB25-093-Q1-E1-C1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3449320
BLAST score
                  185
E value
                  1.0e-100
Match length
                  193
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MRB17, complete sequence [Arabidopsis thaliana]
                  141172
Seq. No.
                  LIB25-093-Q1-E1-D1
Seq. ID
Method
                  BLASTX
                  g2687686
NCBI GI
BLAST score
                  279
                  2.0e-25
E value
Match length
                  56
% identity
                  (AJ000110) cystatin [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141173
                  LIB25-093-Q1-E1-D12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2499973
                  192
BLAST score
E value
                  3.0e-15
Match length
                  41
% identity
                  95
                  PHOTOSYSTEM II 5 KD PROTEIN PRECURSOR (PSII-T)
NCBI Description
                  >gi_1465366_emb_CAA66701_ (X98078) photosystem II
                   [Arabidopsis thaliana]
Seq. No.
                  141174
                  LIB25-093-Q1-E1-D2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g166643
BLAST score
                  201
                  1.0e-109
E value
Match length
                  201
% identity
                  100
                  Arabidopsis thaliana chlorophyll A/B-binding protein gene,
NCBI Description
                  complete cds
Seq. No.
                  141175
                  LIB25-093-Q1-E1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1695717
BLAST score
                  216
E value
                  5.0e-18
Match length
                  45
```

```
% identity
NCBI Description
                  (D89341) luminal binding protein [Arabidopsis thaliana]
                  141176
Seq. No.
Seq. ID
                  LIB25-093-Q1-E1-D6
Method
                  BLASTN
NCBI GI
                  g4468103
BLAST score
                  185
E value
                  1.0e-100
Match length
                  185
% identity
                  100
NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone M3E9
                  (ESSA project)
Seq. No.
                  141177
Seq. ID
                  LIB25-093-Q1-E1-D9
Method
                  BLASTN
NCBI GI
                  g497420
BLAST score
                  180
E value
                  5.0e-97
                  187
Match length
                  99
% identity
NCBI Description Arabidopsis thaliana (strain Columbia) phenylalanine
                  ammonia-lyase (PAL2) gene, complete cds
Seq. No.
                  141178
Seq. ID
                  LIB25-093-Q1-E1-E1
Method
                  BLASTN
NCBI GI
                  g4760411
BLAST score
                  178
E value
                  9.0e-96
Match length
                  178
                  100
% identity
                  Arabidopsis thaliana chromosome 1 BAC F25C20 sequence,
NCBI Description
                  complete sequence
                  141179
Seq. No.
                  LIB25-093-Q1-E1-E11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4586241
                  83
BLAST score
E value
                  2.0e-39
Match length
                  127
                  91
% identity
NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone T20K18
                  (ESSA project)
                  141180
Seq. No.
Seq. ID
                  LIB25-093-Q1-E1-E2
                  BLASTN
Method
NCBI GI
                  g4220633
                  137
BLAST score
E value
                  3.0e-71
                  137
Match length
                  100
% identity
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K7J8, complete sequence [Arabidopsis thaliana]
```

```
Seq. No.
                  141181
                  LIB25-093-Q1-E1-E3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4415905
BLAST score
                   148
                   7.0e-78
E value
Match length ·
                   156
                   99
% identity
                  Arabidopsis thaliana chromosome II BAC F13K3 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141182
Seq. ID
                  LIB25-093-Q1-E1-E6
Method
                  BLASTN
NCBI GI
                   g2232147
BLAST score
                  146
                   1.0e-76
E value
Match length
                  182
                   100
% identity
                  Arabidopsis thaliana 14-3-3-like protein GF14 upsilon
NCBI Description
                   (GRF5) gene, complete cds
Seq. No.
                   141183
Seq. ID
                  LIB25-093-Q1-E1-E9
Method
                  BLASTX
NCBI GI
                   g2495256
BLAST score
                  285
E value
                   4.0e-26
Match length
                   61
% identity
                   93
NCBI Description
                  STRUCTURE-SPECIFIC RECOGNITION PROTEIN 1 HOMOLOG (HMG
                   PROTEIN) >gi_481756_pir__S39242 HMG protein - Madagascar
                  periwinkle >gi_433872_emb_CAA82251_ (Z28410) HMG protein
                   [Catharanthus roseus]
                  141184
Seq. No.
Seq. ID
                  LIB25-093-Q1-E1-F10
Method
                  BLASTN
NCBI GI
                  g1246400
BLAST score
                  157
E value
                   3.0e-83
Match length
                  157
                   100
% identity
NCBI Description A.thaliana mRNA for ferritin
                  141185
Seq. No.
                  LIB25-093-Q1-E1-F5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4581139
BLAST score
                  343
                  7.0e-33
E value
Match length
                   64
% identity
NCBI Description
                   (AC006919) putative ABC transporter [Arabidopsis thaliana]
Seq. No.
                  141186
```

```
LIB25-093-Q1-E1-F7
Seq. ID
Method
                   BLASTN
NCBI GI
                   g1669386
                  70
BLAST score
                   2.0e-31
E value
Match length
                   143
% identity
                   100
                  Arabidopsis thaliana actin 2 (ACT2) gene, complete cds
NCBI Description
Seq. No.
                   141187
                  LIB25-093-Q1-E1-F9
Seq. ID
                   BLASTN
Method
NCBI GI
                   g2288979
BLAST score
                   163
                   7.0e-87
E value
                   187
Match length
                   96
% identity
                  Arabidopsis thaliana chromosome II BAC T01024 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141188
                   LIB25-093-Q1-E1-G10 .
Seq. ID
Method
                   BLASTN
NCBI GI
                   g16440
BLAST score
                   170
                   5.0e-91 -
E value
Match length
                   182
% identity
                   98
NCBI Description A.thaliana PRKase gene for Ribulose-5-phosphate kinase
Seq. No.
                   141189
                   LIB25-093-Q1-E1-G2
Seq. ID
                   BLASTX
Method
NCBI GI
                   g1495251
BLAST score
                   323
E value
                   1.0e-30
                   66
Match length
                   100
% identity
                   (Z70314) heat-shock protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   141190
                   LIB25-093-Q1-E1-G3
Seq. ID
                   BLASTN
Method
NCBI GI
                   g3449331
BLAST score
                   199
E value
                   1.0e-108
                   199
Match length
                   37
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MNC17, complete sequence [Arabidopsis thaliana]
                   141191
Seq. No.
                   LIB25-093-Q1-E1-G7
Seq. ID
                   BLASTX
Method
                   g4314378
NCBI GI
BLAST score
                   162
```

1.0e-11

E value

```
Match length
                  54
% identity
                  65
                  (AC006232) putative lipase [Arabidopsis thaliana]
NCBI Description
                  141192
Seq. No.
Seq. ID
                  LIB25-093-Q1-E1-G8
Method
                  BLASTX
NCBI GI
                  q2119846
BLAST score
                  269
                  3.0e-24
E value
Match length
                  53
% identity
                  100
                  chlorophyll a/b-binding protein type I precursor Lhb1B2 -
NCBI Description
                  Arabidopsis thaliana >gi 16364 emb CAA45790 (X64460)
                  photosystem II type I chlorophyll a /b binding protein
                  [Arabidopsis thaliana] >gi_3128230 (AC004077) photosystem
                  II type I chlorophyll a/b binding protein [Arabidopsis
                  thaliana] >gi 3337371 (AC004481) photosystem II type I
                  chlorophyll a/b binding protein [Arabidopsis thaliana]
Seq. No.
                  141193
Seq. ID
                  LIB25-093-Q1-E1-H10
                  BLASTN
Method
NCBI GI
                  g4733952
                  106
BLAST score
                  7.0e-53
E value
                  176
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome I BAC F23H11 genomic
NCBI Description
                  sequence, complete sequence
                  141194
Seq. No.
Seq. ID
                  LIB25-093-Q1-E1-H2
Method
                  BLASTN
NCBI GI
                  q4580745
                  87
BLAST score
                  2.0e-41
E value
Match length
                  127
                  99
% identity
                  Arabidopsis thaliana chromosome 1 BAC F1003 sequence,
NCBI Description
                  complete sequence
Seq. No.
                  141195
Seq. ID
                  LIB25-093-Q1-E1-H3
Method
                  BLASTX
NCBI GI
                  g119350
BLAST score
                  233
                  5.0e-20
E value
                  47
Match length
                  100
% identity
                  ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE)
NCBI Description
                  (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) >gi_81608_pir__JQ1187
                  phosphopyruvate hydratase (EC 4.2.1.11) - Arabidopsis
                  thaliana >gi_16271_emb_CAA41114_ (X58107) enolase
                  [Arabidopsis thaliana]
                  >gi 4581151 gb AAD24635.1 AC006919 13 (AC006919) enolase
                  (2-phospho-D-glycerate hydroylase); identical to P25696
```

. . .

Method

NCBI GI

BLASTN

g17674

# [Arabidopsis thaliana]

```
Seq. No.
                  141196
Seq. ID
                  LIB25-093-Q1-E1-H4
Method
                  BLASTX
NCBI GI
                  q730526
BLAST score
                  271
                  2.0e-24
E value
Match length
                  48
                  100
% identity
NCBI Description
                  60S RIBOSOMAL PROTEIN L13 (BBC1 PROTEIN HOMOLOG)
                  >gi_480787_pir__S37271 ribosomal protein L13 - Arabidopsis
                  thaliana >gi 404166 emb CAA53005 (X75162) BBC1 protein
                  [Arabidopsis thaliana]
                  141197
Seq. No.
Seq. ID
                  LIB25-093-Q1-E1-H5
Method
                  BLASTX
NCBI GI
                  g2119846
BLAST score
                  254
                  2.0e-22
E value
                  50
Match length
                  100
% identity
NCBI Description
                  chlorophyll a/b-binding protein type I precursor Lhb1B2 -
                  Arabidopsis thaliana >gi 16364 emb CAA45790 (X64460)
                  photosystem II type I chlorophyll a /b binding protein
                  [Arabidopsis thaliana] >gi 3128230 (AC004077) photosystem
                  II type I chlorophyll a/b binding protein [Arabidopsis
                  thaliana] >gi_3337371 (AC004481) photosystem II type I
                  chlorophyll a/b binding protein [Arabidopsis thaliana]
Seq. No.
                  141198
Seq. ID
                  LIB25-093-Q1-E1-H6
Method
                  BLASTN
NCBI GI
                  g4567259
BLAST score
                  67
                  1.0e-29 ·
E value
Match length
                  191
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F3K23 genomic
                  sequence, complete sequence
Seq. No.
                  141199
Seq. ID
                  LIB25-093-Q1-E1-H7
Method
                  BLASTN
NCBI GI
                  g2980757
BLAST score
                  197
                  1.0e-107
E value
Match length
                  197
                  100
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F6I18
                  (ESSAII project)
Seq. No.
                  141200
Seq. ID
                  LIB25-093-Q1-E1-H9
```

NCBI Description

```
BLAST score
                  90
                  1.0e-43
E value
                  90
Match length
                  100
% identity
NCBI Description A.thaliana U4.2 snRNA gene
Seq. No.
                  141201
                  LIB25-094-Q1-E1-A12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g217870
BLAST score
                  197
E value
                  1.0e-107
                  197
Match length
                  100
% identity
                  A. thaliana mRNA for t-complex polypeptide 1 homologue,
NCBI Description
                  complete cds
Seq. No.
                  141202
Seq. ID
                  LIB25-094-Q1-E1-A2
Method
                  BLASTN
NCBI GI
                  g4741961
                  199
BLAST score
E value
                  1.0e-108
Match length
                  199
                  100
% identity
                  Arabidopsis thaliana PsbS protein (PsbS) mRNA, complete cds
NCBI Description
                  141203
Seq. No.
Seq. ID
                  LIB25-094-Q1-E1-A3
                  BLASTN
Method
                  g3776004
NCBI GI
BLAST score
                  192
E value
                  1.0e-104
                  192
Match length
                  100
% identity
                  Arabidopsis thaliana mRNA for DEAD box RNA helicase, RH15
NCBI Description
                  141204
Seq. No.
Seq. ID
                  LIB25-094-Q1-E1-B10
Method
                  BLASTN
                  g2696018
NCBI GI
BLAST score
                  151
                  1.0e-79
E value
Match length
                  188
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MXC9, complete sequence [Arabidopsis thaliana]
                  141205
Seq. No.
Seq. ID
                  LIB25-094-Q1-E1-B11
Method
                  BLASTX
                  g4006865
NCBI GI
                  354
BLAST score
                  3.0e-34
E value
Match length
                  64
% identity
                  100
```

(Z99707) putative protein [Arabidopsis thaliana]

```
Seq. No.
                  141206
Seq. ID
                  LIB25-094-Q1-E1-B12
Method
                  BLASTX
NCBI GI
                  g2281095
BLAST score .
                  184
E value
                  3.0e-14
Match length
                  46
% identity
                  83
NCBI Description (AC002333) cysteine synthase, cpACS1 [Arabidopsis thaliana]
Seq. No.
                  141207
Seq. ID
                  LIB25-094-Q1-E1-B4
Method
                  BLASTX
NCBI GI
                  g2119846
BLAST score
                  308
E value
                  8.0e-29
Match length
                  60
% identity
                  100
                  chlorophyll a/b-binding protein type I precursor Lhb1B2 -
NCBI Description
                  Arabidopsis thaliana >gi_16364 emb CAA45790 (X64460)
                  photosystem II type I chlorophyll a /b binding protein
                  [Arabidopsis thaliana] >gi 3128230 (AC004077) photosystem
                  II type I chlorophyll a/b binding protein [Arabidopsis
                  thaliana] >gi_3337371 (AC004481) photosystem II type I
                  chlorophyll a/b binding protein [Arabidopsis thaliana]
Seq. No.
                  141208
                  LIB25-094-Q1-E1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4454567
BLAST score
                  254
E value
                  2.0e-22
Match length
                  50
% identity
                  100
NCBI Description (AF128407) EDS1 [Arabidopsis thaliana]
Seq. No.
                  141209
Seq. ID
                  LIB25-094-Q1-E1-B7
Method
                  BLASTN
NCBI GI
                  q1785618
BLAST score
                  99
E value
                  1.0e-48
Match length
                  126
% identity
                  100
NCBI Description
                  Artificial sequence; A.thaliana DNA; pGV1048 T-DNA; GUS
                  fusion protein (1348 bp)
Seq. No.
                  141210
                  LIB25-094-Q1-E1-B8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3250673
BLAST score
                  195
E value
                  1.0e-106
Match length
                 . 195
% identity
                  100
NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone T16H5
```

## (ESSAII project)

141211. Seq. No. Seq. ID LIB25-094-Q1-E1-B9 Method BLASTN NCBI GI g3402695 BLAST score 199 E value 1.0e-108 Match length 199 100 % identity Arabidopsis thaliana chromosome II BAC T3K9 genomic NCBI Description sequence, complete sequence [Arabidopsis thaliana] 141212 Seq. No. LIB25-094-Q1-E1-C3 Seq. ID Method BLASTX NCBI GI g407992 BLAST score 136 E value 1.0e-08 Match length 60 % identity 48 NCBI Description (L25125) RNA helicase [Mus musculus] 141213 Seq. No. LIB25-094-Q1-E1-C4 Seq. ID Method BLASTN NCBI GI g4760411 BLAST score 201 E value 1.0e-109 Match length 201 100 % identity NCBI Description Arabidopsis thaliana chromosome 1 BAC F25C20 sequence, complete sequence Seq. No. 141214 Seq. ID LIB25-094-Q1-E1-C5 Method BLASTX NCBI GI q3915823 BLAST score 275 E value 6.0e-25 Match length 53 98 % identity NCBI Description [Segment 1 of 2] 60S RIBOSOMAL PROTEIN L5 141215 Seq. No. Seq. ID LIB25-094-Q1-E1-C6 Method BLASTX NCBI GI g2119846 278 BLAST score E value 3.0e-25 Match length 55 % identity chlorophyll a/b-binding protein type I precursor Lhb1B2 -NCBI Description

Arabidopsis thaliana >gi\_16364\_emb\_CAA45790\_ (X64460) photosystem II type I chlorophyll a /b binding protein [Arabidopsis thaliana] >gi\_3128230 (AC004077) photosystem II type I chlorophyll a/b binding protein [Arabidopsis

```
141216
Seq. No.
Seq. ID
                  LIB25-094-Q1-E1-C8
Method
                  BLASTN
NCBI GI
                  g2058281
BLAST score
                  157
E value
                  3.0e-83
Match length
                  157
                  100
% identity
NCBI Description A.thaliana mRNA for AtRanBPla protein
Seq. No.
                  141217
                  LIB25-094-Q1-E1-C9
Seq. ID
Method
                  BLASTN
                  g905390
NCBI GI
BLAST score
                  199
E value
                  1.0e-108
                  199
Match length
                  100
% identity
                  Arabidopsis thaliana serine acetyltransferase (Sat-52)
NCBI Description
                  mRNA, complete cds
Seq. No.
                  141218
                  LIB25-094-Q1-E1-D10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4689386
BLAST score
                  180
E value
                   9.0e-14
                  39
Match length
                  87
% identity
                   (AF139468) photosystem I reaction center subunit III [Vigna
NCBI Description
                  radiata]
Seq. No.
                  141219
                  LIB25-094-Q1-E1-D12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4490324
BLAST score
                  180
E value
                   5.0e-97
Match length
                  201
                   97
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T9A14
NCBI Description
                   (ESSA project)
Seq. No.
                  141220
                  LIB25-094-Q1-E1-D3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g1532162
BLAST score
                  141
                  1.0e-73
E value
                  204
Match length
                  100
% identity
                  Arabidopsis thaliana AT.I.24-1, AT.I.24-2, AT.I.24-3,
NCBI Description
                  AT.I.24-4, AT.I.24-5, AT.I.24-6, AT.I.24-9 and AT.I.24-14
```

thaliana] >gi\_3337371 (AC004481) photosystem II type I chlorophyll a/b binding protein [Arabidopsis thaliana]

genes, partial cds, AT.I.24-7, ascorbate peroxidase

```
(ATHAPX1), EF-lalpha-A1, -A2 and -A3 (EF-lalpha) and AT.I
                   141221
 Seq. No.
 Seq. ID
                   LIB25-094-Q1-E1-D5
                   BLASTN
 Method
 NCBI GI
                   g2618600
 BLAST score
                   180
 E value
                    5.0e-97
                   180
 Match length
                    100
 % identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MDC12, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    141222
                   LIB25-094-Q1-E1-D7
 Seq. ID
                   BLASTX
 Method
                    g3688799
 NCBI GI
                   230
 BLAST score
 E value
                    1.0e-19
 Match length
                    46
 % identity
                    100
                    (AF057137) gamma tonoplast intrinsic protein 2 [Arabidopsis
 NCBI Description
                   thaliana]
 Seq. No.
                    141223
                   LIB25-094-Q1-E1-D9
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g124224
                    272
 BLAST score
 E value
                    1.0e-24
                    55
 Match length
 % identity
                    96
                    INITIATION FACTOR 5A-1 (EIF-5A) (EIF-4D)
 NCBI Description
                    >gi 100345 pir S21060 translation initiation factor eIF-5A
                    - common tobacco >gi 19887_emb_CAA45105_ (X63543)
                    eukaryotic initiatin factor 5A (3) [Nicotiana tabacum]
 Seq. No.
                    141224
                    LIB25-094-Q1-E1-E1
 Seq. ID
                    BLASTN
 Method
 NCBI GI
                    g3831448
                    201
 BLAST score
                    1.0e-109
 E value
                    201
 Match length
                    100
 % identity
                   Arabidopsis thaliana chromosome II BAC T32F6 genomic
 NCBI Description
                    sequence, complete sequence [Arabidopsis thaliana]
                    141225
 Seq. No.
                    LIB25-094-Q1-E1-E4
 Seq. ID
                    BLASTX
 Method
 NCBI GI
                    g401169
 BLAST score
                    212
                    1.0e-17
 E value
 Match length
                    40
                    100
 % identity
                   TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP)
 NCBI Description
```

Match length

NCBI Description

% identity

201 100

141226 Seq. No. LIB25-094-Q1-E1-E5 Seq. ID Method BLASTN NCBI GI g2924729 BLAST score 193 E value 1.0e-105 193 Match length 100 % identity Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MNA5, complete sequence [Arabidopsis thaliana] Seq. No. 141227 Seq. ID LIB25-094-Q1-E1-E6 Method BLASTX NCBI GI g1076366 BLAST score 267 200 E value 5.0e-24 51 Match length 100 % identity peptidylprolyl isomerase (EC 5.2.1.8) - Arabidopsis NCBI Description thaliana >gi\_460968 (U07276) peptidyl-prolyl cis-trans isomerase [Arabidopsis thaliana] >gi 992643 (U32186) cyclophilin [Arabidopsis thaliana] >gi 1091580 prf 2021266A peptidyl-Pro cis-trans isomerase [Arabidopsis thaliana] Seq. No. 141228 Seq. ID LIB25-094-Q1-E1-E9 Method BLASTX NCBI GI g119143 BLAST score 330 E value 2.0e-31 Match length 65 % identity NCBI Description ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) >gi\_81606\_pir\_\_S06724 translation elongation factor eEF-1
alpha chain - Arabidopsis thaliana >gi\_295788\_emb\_CAA34453\_ (X16430) elongation factor 1-alpha [Arabidopsis thaliana] >qi 1369927 emb CAA34454 (X16431) elongation factor 1-alpha [Arabidopsis thaliana] >gi\_1369928\_emb\_CAA34455\_(X16431) elongation factor 1-alpha [Arabidopsis thaliana] >gi\_1532172 (U63815) EF-lalpha-A1 [Arabidopsis thaliana]
>gi\_1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana] >gi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana] Seq. No. 141229 Seq. ID LIB25-094-Q1-E1-F1 Method BLASTN NCBI GI g2618677 BLAST score 201 E value 1.0e-109

sequence [Arabidopsis thaliana]

Arabidopsis thaliana BAC F21B7 chromosome 1, complete

Method

```
141230
Seq. No.
Seq. ID
                  LIB25-094-Q1-E1-F10
                  BLASTX
Method
NCBI GI
                   g4587543
BLAST score
                   302
E value
                   4.0e-28
Match length
                   59
                   100
% identity
                   (AC006577) Belongs to the PF 00657 Lipase/Acylhydrolase
NCBI Description
                   with GDSL-motif family. EST gb_AB015099 comes from this
                   gene. [Arabidopsis thaliana]
                   141231
Seq. No.
                   LIB25-094-Q1-E1-F11
Seq. ID
Method
                  BLASTN
NCBI GI
                   g3212846
BLAST score
                   166
                   1.0e-88
E value
Match length
                   188
                   100
% identity
                  Arabidopsis thaliana chromosome II BAC F6E13 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141232
                   LIB25-094-Q1-E1-F12
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2262097
BLAST score
                   185
                   1.0e-100
E value
Match length
                   185
                   100
% identity
                  Arabidopsis thaliana chromosome IV BAC T19F6 genomic
NCBI Description
                   sequence, complete sequence
Seq. No.
                   141233
                   LIB25-094-Q1-E1-F3
Seq. ID
                   BLASTN
Method
NCBI GI
                   q3123744
                   52
BLAST score
E value
                   1.0e-20
                   100
Match length
                   88
% identity
                  Brassica napus mRNA for aluminum-induced, complete cds
NCBI Description
                   141234
Seq. No.
                   LIB25-094-Q1-E1-F5
Seq. ID
Method
                   BLASTX
                   g730544
NCBI GI
                   240
BLAST score.
                   8.0e-21
E value
Match length
                   45
                   100
% identity
                   60S RIBOSOMAL PROTEIN L24
NCBI Description
                   141235
Seq. No.
                   LIB25-094-Q1-E1-F7
Seq. ID
```

BLASTN

Match length

197

```
NCBI GI
                  q3885325
BLAST score
                  195
E value
                  1.0e-106
Match length
                  195
% identity
                  100
                  Arabidopsis thaliana chromosome II BAC T20P8 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141236
Seq. ID
                  LIB25-094-Q1-E1-F8
Method
                  BLASTX
                  g2244807
NCBI GI
BLAST score
                  218
                  3.0e-18
E value
                  69
Match length
% identity
                  61
                  (Z97336) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                 141237
Seq. No.
                  LIB25-094-Q1-E1-G1
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4586241
BLAST score
                  170
E value
                  5.0e-91
                  203
Match length
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T20K18
NCBI Description
                   (ESSA project)
                  141238
Seq. No.
Seq. ID
                  LIB25-094-Q1-E1-G3
Method
                  BLASTX
NCBI GI
                  g2062167
BLAST score
                  345
                  4.0e-33
E value
Match length
                  66
                  100
% identity
                   (AC001645) Proline-rich protein APG isolog [Arabidopsis
NCBI Description
                  thaliana].
Seq. No.
                  141239
Seq. ID
                  LIB25-094-Q1-E1-G4
Method
                  BLASTN
NCBI GI
                  g2058281
BLAST score
                  159
E value
                  2.0e-84
Match length
                  159
                  100
% identity
NCBI Description A.thaliana mRNA for AtRanBPla protein
Seq. No.
                  141240
                  LIB25-094-Q1-E1-G5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4049332
BLAST score
                  115
E value
                  3.0e-58
```

```
% identity
 NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone
                    (ESSAII project)
 Seq. No.
                   141241
 Seq. ID
                   LIB25-094-Q1-E1-H1
 Method
                   BLASTN
 NCBI GI
                   g4538990
 BLAST score
                   103
 E value
                    5.0e-51
 Match length
                   207
 % identity
                    100
                   Arabidopsis thaliana DNA chromosome 4, BAC clone T5L19
 NCBI Description
                    (ESSA project)
                   141242
 Seq. No.
 Seq. ID
                   LIB25-094-Q1-E1-H10
                   BLASTX
 Method
 NCBI GI
                   g2454184
 BLAST score
                   311
                    4.0e-29
 E value
 Match length
                    64
                    100
 % identity
                    (U80186) pyruvate dehydrogenase El beta subunit
 NCBI Description
                    [Arabidopsis thaliana]
                   141243
 Seq. No.
 Seq. ID
                   LIB25-094-Q1-E1-H12
 Method
                   BLASTX
 NCBI GI
                   g974216
 BLAST score
                   323
                    1.0e-30
 E value
                    65
 Match length
                    52
 % identity
 NCBI Description (X90652) TATA-box binding protein [Zea mays]
                   141244
 Seq. No.
 Seq. ID
                   LIB25-094-Q1-E1-H2
 Method
                   BLASTX
 NCBI GI
                   g3298542
 BLAST score
                   184
                    3.0e-14
 E value
 Match length
                    65
 % identity
 NCBI Description
                    (AC004681) putative cellulose synthase [Arabidopsis
                   thaliana]
                   141245
 Seq. No.
 Seq. ID
                   LIB25-094-Q1-E1-H4
 Method
                   BLASTX
 NCBI GI
                   g3341676
 BLAST score
                   287
                   2.0e-26
 E value
                   57
Match length
 % identity
                    (AC003672) putative glycosyl hydrolase [Arabidopsis
 NCBI Description
                   thaliana]
```

17214

97

```
141246
Seq. No.
Seq. ID
                   LIB25-094-Q1-E1-H5
                                                 1
Method
                   BLASTN
NCBI GI
                   g4159707
BLAST score
                   198
                   1.0e-107
E value
                   198
Match length
% identity
                   100
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MJK13, complete sequence
                   141247
Seq. No.
Seq. ID
                   LIB25-094-Q1-E1-H7
Method
                   BLASTN
NCBI GI
                   g2642214
BLAST score
                   196
                   1.0e-106
E value
Match length
                   196
                   100
% identity
NCBI Description Arabidopsis thaliana NOI protein mRNA, complete cds
                   141248
Seq. No.
Seq. ID
                   LIB25-094-Q1-E1-H8
Method
                   BLASTX
NCBI GI
                   g115767
BLAST score
                   249
E value
                   7.0e-22
                   50
Match length
                   100
% identity
                   CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                   (CAB-165/180) (LHCP) >gi_81603_pir__A29280 chlorophyll
                   a/b-binding protein ab16\overline{5} - Arabid\overline{op}sis thaliana
                   >gi 16368 emb CAA27540 (X03907) chlorophyll a/b binding
                   protein (LHCP AB 65) [Arabidopsis thaliana]
                   >gi 16372 emb CAA27541 (X03908) chlorophyll a/b binding
                   protein (LHCP AB 180) [Arabidopsis thaliana]
Seq. No.
                   141249
                   LIB25-095-Q1-E1-A1
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2738248
BLAST score
                   227
E value
                   3.0e-19
Match length
                   64
                   75
% identity
                   (U97200) cobalamin-independent methionine synthase
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   141250
                   LIB25-095-Q1-E1-A10
Seq. ID
Method
                   BLASTN
                   q3702724
NCBI GI
BLAST score
                   41
E value
                   5.0e-14
Match length
                   161
% identity
                   86
```

```
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K17N15, complete sequence [Arabidopsis thaliana]
                  141251
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-A11
Method
                  BLASTX
NCBI GI
                  g2149051
BLAST score
                  222
                  1.0e-18
E value
Match length
                  42
                  100
% identity
                 (U73810) small Ras-like GTP-binding protein [Arabidopsis
NCBI Description
                  thaliana]
                  141252
Seq. No.
                  LIB25-095-Q1-E1-A12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2351073
BLAST score
                  168
                  8.0e-90
E value
Match length
                  203
% identity
                  97
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MYJ24, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141253
Seq. ID
                  LIB25-095-Q1-E1-A4
Method
                  BLASTX
NCBI GI
                  g3080392
BLAST score
                  209
E value
                  4.0e-17
Match length
                  53
% identity
NCBI Description (AL022603) glucose transporter [Arabidopsis thaliana]
Seq. No.
                  141254
                  LIB25-095-Q1-E1-A5
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4519183
BLAST score
                  191
E value
                  1.0e-103
Match length
                  218
                  96
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K15C23, complete sequence
Seq. No.
                  141255
                  LIB25-095-Q1-E1-B1
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4538990
BLAST score
                  69
E value
                  1.0e-30
Match length
                  158
                  100
% identity
NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone T5L19
```

(ESSA project)

```
141256
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-B2
Method
                  BLASTX
NCBI GI
                  g629602
BLAST score
                  382
E value
                  2.0e-37
Match length
                  73
% identity
                  99
                  probable imbibition protein - wild cabbage
NCBI Description
                  >gi 488787 emb CAA55893 (X79330) putative imbibition
                  protein [Brassica oleracea]
Seq. No.
                  141257
Seq. ID
                  LIB25-095-Q1-E1-B4
Method
                  BLASTX
NCBI GI
                  g2118017
BLAST score
                  254
                  2.0e-22
E value
Match length
                  60
                  72
% identity
                  non-S-RNase (EC 3.1.-.-) - Japanese pear
NCBI Description
                  >gi 1526417_dbj BAA08475 (D49529) ribonuclease [Pyrus
                  pyrifolia]
Seq. No.
                  141258
Seq. ID
                  LIB25-095-Q1-E1-B5
Method
                  BLASTN
NCBI GI
                  g3128143
BLAST score
                  219
                  1.0e-120
E value
Match length
                  219
                  100
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MTI20, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141259
Seq. ID
                  LIB25-095-Q1-E1-B7
Method
                  BLASTX
NCBI GI
                  g137465
BLAST score
                  339
E value
                  2.0e-32
                  73
Match length
                  95
% identity
                  VACUOLAR ATP SYNTHASE SUBUNIT B (V-ATPASE B SUBUNIT)
NCBI Description
                  (V-ATPASE 57 KD SUBUNIT) >gi 81637 pir A31886
                  H+-transporting ATPase (EC 3.6.1.35) 57K chain -
                  Arabidopsis thaliana >gi 166627 (J04185) nucleotide-binding
                  subunit of vacuolar ATPase [Arabidopsis thaliana]
Seq. No.
                  141260
Seq. ID
                  LIB25-095-Q1-E1-B8
Method
                  BLASTN
NCBI GI
                  g1181530
BLAST score
                  213
E value
                  1.0e-116
Match length
                  213
% identity
                  100
```

```
NCBI Description Arabidopsis thaliana thionin (Thi2.1) mRNA, complete cds
                  141261.
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-B9
Method
                  BLASTX
NCBI GI
                  q2160168
BLAST score
                  261
                  3.0e-23
E value
Match length
                  47
% identity
                  100
                  (AC000132) Strong similarity to R. communis
NCBI Description
                  phosphoglycerate mutase (gb X70652). ESTs
                  gb_T41853,gb_T76648 come from this gene. [Arabidopsis
                  thaliana]
                  141262
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-C1
Method
                  BLASTN
NCBI GI
                  g2062705
BLAST score
                  36
                  5.0e-11
E value
                  49
Match length
% identity
                  56
                  Human butyrophilin (BTF5) mRNA, complete cds
NCBI Description
                  141263
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-C10
Method
                  BLASTN.
                  g2746340
NCBI GI
BLAST score
                  199
E value
                  1.0e-108
Match length
                  199
                  100
% identity
NCBI Description Arabidopsis thaliana ATA27 mRNA, complete cds
                  141264
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-C11
                  BLASTN
Method
NCBI GI
                  g2832689
BLAST score
                  205
                  1.0e-112
E value
Match length
                  205
                  100
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T9A21
                  (ESSAII project)
Seq. No.
                  141265
Seq. ID
                  LIB25-095-Q1-E1-C2
                  BLASTN
Method
                  g4468801
NCBI GI
BLAST score
                  89
                  9.0e-43
E value
Match length
                  158
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F6G17
NCBI Description
```

4...

(ESSA project)

```
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-C5
Method
                  BLASTX
NCBI GI
                  g1946367
BLAST score
                  357
E value
                  1.0e-34
Match length
                  71
                  100
% identity
                  (U93215) unknown protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141267
Seq. ID
                  LIB25-095-Q1-E1-C6
Method
                  BLASTN
NCBI GI
                  g3869069
BLAST score
                  149
                  2.0e-78
E value
Match length
                  218
                  98
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MEB5, complete sequence [Arabidopsis thaliana]
                  141268
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-C8
Method
                  BLASTX
                  g4741954
NCBI GI
BLAST score
                  308
                  8.0e-29
E value
Match length
                  60
% identity
                  (AF134127) Lhcb4.2 protein [Arabidopsis thaliana]
NCBI Description
                  141269
Seq. No.
                  LIB25-095-Q1-E1-D10
Seq. ID
                  BLASTN
Method
                  g4454447
NCBI GI
BLAST score
                  201
E value
                  1.0e-109
                  201
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F5H14 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  141270
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-D12
Method
                  BLASTN
NCBI GI
                  g2832667
BLAST score
                  187
E value
                  1.0e-101
                  187
Match length
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T10I14
NCBI Description
                  (ESSAII project)
Seq. No.
                  141271
                  LIB25-095-Q1-E1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1175013
```

```
BLAST score
                  260
E value
                  3.0e-23
Match length
                  49
                  100
% identity
                  PLASMA MEMBRANE INTRINSIC PROTEIN 2A >gi_629542_pir__S44084
NCBI Description
                  plasma membrane intrinsic protein 2a - Arabidopsis thaliana
                  >gi_472877_emb_CAA53477 (X75883) plasma membrane intrinsic
                  protein 2a [Arabidopsis thaliana]
                  141272
Seq. No.
                  LIB25-095-Q1-E1-D9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4220638
BLAST score
                  171
                  1.0e-91
E value
                  201
Match length
                  95
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MIF21, complete sequence [Arabidopsis thaliana]
                  141273
Seq. No.
                  LIB25-095-Q1-E1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4567286
                  209
BLAST score
                   4.0e-17
E value
                  58
Match length
                  74
% identity
                   (AC006841) putative coatomer alpha subunit [Arabidopsis
NCBI Description
                  thaliana]
                  141274
Seq. No.
                  LIB25-095-Q1-E1-E10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4220510
BLAST score
                  174
E value
                  2.0e-93
Match length
                  201
                  96
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18
                   (ESSAII project)
Seq. No.
                  141275
                  LIB25-095-Q1-E1-E2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2924651
                  176
BLAST score
E value
                  2.0e-94
                  176
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K2A18, complete sequence [Arabidopsis thaliana]
          :14
                  141276
Seq. No.
                  LIB25-095-Q1-E1-E4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1491615
```

E value

5.0e-18

```
BLAST score
                  213
E value
                  1.0e-17
Match length
                  56
                  75
% identity
NCBI Description
                   (X99923) male sterility 2-like protein [Arabidopsis
                  141277
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-E8
Method
                  BLASTN
NCBI GI
                  q2651294
BLAST score
                  77
                  2.0e-35
E value
Match length
                  221
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T2P4 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141278
                  LIB25-095-Q1-E1-E9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4159703
BLAST score
                  106
                  8.0e-53
E value
Match length
                  143
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K5F14, complete sequence
                  141279
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-F10
Method
                  BLASTN
NCBI GI
                  g3510343
BLAST score
                  105
E value
                  3.0e-52
                  128
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MJC20, complete sequence [Arabidopsis thaliana]
                  141280
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-F11
Method
                  BLASTX
NCBI GI
                  g1345594
BLAST score
                  149
                  4.0e-10
E value
Match length
                  61
                  94
% identity
                  14-3-3-LIKE PROTEIN GF14 KAPPA >qi 1022780 (U36447) GF14
NCBI Description
                  Kappa isoform [Arabidopsis thaliana]
Seq. No.
                  141281
                  LIB25-095-Q1-E1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g401169
BLAST score
                  216
```

NCBI GI

```
Match length
                    41
% identity
                    100
                   TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP)
NCBI Description
                    141282
Seq. No.
Seq. ID
                    LIB25-095-Q1-E1-F2
Method
                    BLASTN
NCBI GI
                    g1935913
BLAST score
                    215
E value
                    1.0e-118
                    222
Match length
                    100
% identity
                   Arabidopsis thaliana lethal leaf-spot 1 homolog (Lls1)
NCBI Description
                    mRNA, partial cds
                    141283
Seq. No.
Seq. ID
                    LIB25-095-Q1-E1-F3
Method
                    BLASTX
NCBI GI-
                    g464987
BLAST score
                    261
E value
                    3.0e-23
                    49
Match length
                    100
% identity
NCBI Description
                    UBIQUITIN-CONJUGATING ENZYME E2-17 KD 10 (UBIQUITIN-PROTEIN
                    LIGASE 10) (UBIQUITIN CARRIER PROTEIN 10)
                    >gi_421858_pir__S32672 ubiquitin--protein ligase (EC
6.3.2.19) UBC10 - Arabidopsis thaliana
                    >gi_297878_emb_CAA78715_ (Z14991) ubiquitin conjugating
enzyme [Arabidopsis thaliana] >gi_349213 (L00640) ubiquitin
                    conjugating enzyme [Arabidopsis thaliana]
                    141284
Seq. No.
                    LIB25-095-Q1-E1-F5
Seq. ID
Method
                    BLASTX
NCBI GI
                    g3892712
BLAST score
                    369
E value
                    6.0e-36
Match length
                    72
                    100
% identity
                    (AL033545) adenine phosphoribosyltransferase (EC
NCBI Description
                    2.4.2.7)-like protein [Arabidopsis thaliana]
                    141285
Seq. No.
Seq. ID
                    LIB25-095-Q1-E1-F6
Method
                    BLASTN
NCBI GI
                    g2288886
BLAST score
                    202
E value
                    1.0e-110
                    202
Match length
                    84
% identity
                   Arabidopsis thaliana mRNA for mevalonate diphosphate
NCBI Description
                    decarboxylase
                    141286
Seq. No.
                    LIB25-095-Q1-E1-F8
Seq. ID
Method
                    BLASTX
```

g3461848

% identity

```
BLAST score
                  360
                  6.0e-35
E value
                  71
Match length
                  100
% identity
NCBI Description
                  (AC005315) putative ATPase [Arabidopsis thaliana]
Seq. No.
                  141287
                  LIB25-095-Q1-E1-G1
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3212102
BLAST score
                  157
                  3.0e-83
E value
Match length
                  181
                  100
% identity
                  Arabidopsis Thaliana BAC F6A4, Chromosome IV, near 60.5 cM,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  141288
Seq. ID
                  LIB25-095-Q1-E1-G10
Method
                  BLASTX
NCBI GI
                  g3776029
BLAST score
                  320
E value
                  3.0e-30
Match length
                  63
% identity
NCBI Description (AJ010476) RNA helicase [Arabidopsis thaliana]
                  141289
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-G12
Method
                  BLASTX
NCBI GI
                  g3688799
BLAST score
                  271
                  2.0e-24
E value
Match length
                  64
% identity
                  (AF057137) gamma tonoplast intrinsic protein 2 [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  141290
Seq. ID
                  LIB25-095-Q1-E1-G2
Method
                  BLASTN
NCBI GI
                  g4757414
BLAST score
                  101
E value
                  8.0e-50
Match length
                  220
% identity
                  98
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MYF24, complete sequence
                  141291
Seq. No.
Seq. ID
                  LIB25-095-Q1-E1-G6
Method
                  BLASTN
NCBI GI
                  g4376087
BLAST score
                  216
E value
                  1.0e-118
Match length
                  216
```

Seq. ID

Method



```
NCBI Description Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
                   fragment No
                   141292
Seq. No.
Seq. ID
                   LIB25-095-Q1-E1-G8
Method
                   BLASTN
NCBI GI
                   q4335744
BLAST score
                   41
E value
                   5.0e-14
Match length
                   77
                   88
% identity
NCBI Description
                   Arabidopsis thaliana chromosome II BAC T4M8 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
                   141293
Seq. No.
Seq. ID
                   LIB25-095-Q1-E1-H1
Method
                   BLASTN
NCBI GI
                   g4249393
BLAST score
                   181
                   2.0e-97
E value
                   220
Match length
% identity
                   98
                   Arabidopsis thaliana chromosome II BAC T9J23 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   141294
Seq. No.
Seq. ID
                   LIB25-095-Q1-E1-H4
Method
                   BLASTX
NCBI GI
                   g2129944
BLAST score
                   210
                   3.0e-17
E value
Match length
                   46
                   83
% identity
                   RNA-binding protein RZ-1 - wood tobacco
NCBI Description
                   >gi_1395193_dbj_BAA12064_ (D83696) RNA-binding protein RZ-1
[Nicotiana sylvestris] >gi_1435062_dbj_BAA06012_ (D28861)
                   RNA binding protein, RZ-1 [Nicotiana sylvestris]
Seq. No.
                   141295
                   LIB25-095-Q1-E1-H5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g544424
                   204
BLAST score
E value
                   1.0e-16
Match length
                   39
% identity
                   GLYCINE-RICH RNA-BINDING PROTEIN 7 >gi_419755_pir__S30147
NCBI Description
                   glycine-rich protein (clone AtGRP7) - Arabidopsis thaliana
                   >gi_16301_emb_CAA78711_ (Z14987) glycine rich protein
                   [Arabidopsis thaliana] >gi_166837 (L00648) RNA-binding
                   protein [Arabidopsis thaliana]
                   >gi 4567224 gb AAD23639.1_AC007119_5 (AC007119)
                   glycine-rich RNA binding protein 7 [Arabidopsis thaliana]
Seq. No.
                   141296
```

LIB25-095-Q1-E1-H8

BLASTN

Method

BLASTN

```
NCBI GI
                  g4220635
BLAST score
                  214
E value
                  1.0e-117
Match length
                  214
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MDB19, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141297
Seq. ID
                  LIB25-095-Q1-E1-H9
Method
                  BLASTX
NCBI GI
                  g267146
BLAST score
                  332
E value
                  1.0e-31
Match length
                  66
% identity
                  95
NCBI Description
                  DNA TOPOISOMERASE I >qi 99762 pir S22864 DNA topoisomerase
                   (EC 5.99.1.2) I - Arabidopsis thaliana
                  >gi 16558 emb CAA40763 (X57544) topoisomerase I
                   [Arabidopsis thaliana] >gi 445137 prf 1908437A
                  topoisomerase I [Arabidopsis thaliana]
Seq. No.
                  141298
Seq. ID
                  LIB25-096-Q1-E1-A10
Method
                  BLASTX
NCBI GI
                  g2586157
BLAST score
                  330
E value
                  2.0e-31
Match length
                  66
% identity
                   (AF002220) kinesin-like calmodulin-binding protein
NCBI Description
                   [Arabidopsis thaliana]
                  141299
Seq. No.
                  LIB25-096-01-E1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2914701
BLAST score
                  356
E value
                  2.0e-34
Match length
                  66
% identity
                  (AC003974) putative cytochrome b5 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  LIB25-096-Q1-E1-A6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1246019
BLAST score
                  290
E value
                  1.0e-26
Match length
                  56
                  100
% identity
                  (S80554) chalcone synthase, CHS [Arabidopsis, Landsberg
NCBI Description
                  erecta, tt4, Peptide Mutant, 395 aa] [Arabidopsis]
Seq. No.
                  141301
Seq. ID
                  LIB25-096-Q1-E1-A8
```

E value

```
NCBI GI
                  g1546699
BLAST score
                  214
                  1.0e-117
E value ·
Match length
                  214
% identity
                  100
NCBI Description A.thaliana mRNA for peroxidase ATP18a
                  141302
Seq. No.
                  LIB25-096-Q1-E1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g228456
BLAST score
                  282
                  9.0e-26
E value
                  50
Match length
                  100
% identity
NCBI Description Gln synthetase [Arabidopsis thaliana]
                  141303
Seq. No.
Seq. ID
                  LIB25-096-Q1-E1-B5
Method
                  BLASTX
NCBI GI
                  g4105798
                  257
BLAST score
E value
                  8.0e-23
Match length
                  70
% identity
                  59
                  (AF049930) PGP237-11 [Petunia x hybrida]
NCBI Description
                  141304
Seq. No.
Seq. ID
                  LIB25-096-Q1-E1-B6
Method
                  BLASTX
NCBI GI
                  g1171991
BLAST score
                  353
E value
                   4.0e-34
Match length
                  73
% identity
                  PHENYLALANINE AMMONIA-LYASE 1 >gi 1076369 pir S52990
NCBI Description
                  phenylalanine ammonia-lyase (EC 4.3.1.5) - Arabidopsis
                  thaliana >gi 497419 (L33677) phenylalanine ammonia lyase
                   [Arabidopsis thaliana]
Seq. No.
                  141305
Seq. ID
                  LIB25-096-Q1-E1-B7
Method
                  BLASTX
NCBI GI
                  g2961390
BLAST score
                  261
E value
                  3.0e-23
                  50
Match length
                  100
% identity
                   (AL022141) beta-galactosidase like protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  141306
                  LIB25-096-Q1-E1-B8
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2980757
BLAST score
                  194
```

1.0e-105

```
215
Match length
% identity
                   97
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F6I18
                   (ESSAII project)
                   141307
Seq. No.
                   LIB25-096-Q1-E1-C11
Seq. ID
Method
                   BLASTX
                   q1145697
NCBI GI
BLAST score
                   339
E value
                   2.0e-32
Match length
                   67
% identity
                   100
NCBI Description
                   (U39485) delta tonoplast integral protein [Arabidopsis
                   thaliana]
Seq. No.
                   141308
Seq. ID
                   LIB25-096-Q1-E1-C12
Method
                   BLASTX
NCBI GI
                   g4741929
BLAST score
                   215
E value
                   7.0e-18
                   62
Match length
                  65
% identity
                   (AF130253) membrane related protein CP5 [Arabidopsis
NCBI Description
                   thaliana]
                   141309
Seq. No.
                   LIB25-096-Q1-E1-C2
Seq. ID
Method
                   BLASTN
NCBI GI
                   g511080
BLAST score
                   112
E value
                   2.0e-56
Match length
                   112
% identity
NCBI Description A.thaliana HEM15 mRNA for ferrochelatase
Seq. No.
                  141310
                  LIB25-096-Q1-E1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4490705
BLAST score
                   359
E value
                   8.0e-35
Match length
                  72
% identity
                   (AL035680) ribosomal protein L14-like protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                   141311
                  LIB25-096-Q1-E1-C6
Seq. ID
Method
                  BLASTN.
                  g3335331
NCBI GI
                  191
BLAST score
E value
                   1.0e-103
Match length
                  191
% identity
                  100
NCBI Description Arabidopsis thaliana chromosome 1 BAC T8F5 sequence,
```

NCBI GI

## complete sequence [Arabidopsis thaliana]

```
141312
Seq. No.
                   LIB25-096-Q1-E1-C7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3128175
BLAST score
                   167
E value
                   3.0e-12
Match length
                   57
                   49
% identity
                  (AC004521) unknown protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   141313
                   LIB25-096-Q1-E1-C8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g999542
BLAST score
                   204
                   1.0e-16
E value
Match length
                   58
% identity
                   66
                  Spinacia oleracea >gi_999543_pdb_1GYL_B Spinacia oleracea
NCBI Description
                   141314
Seq. No.
                   LIB25-096-Q1-E1-D10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1350680
BLAST score
                   237
                   2.0e-20
E value
Match length
                   53
                   89
% identity
NCBI Description 60S RIBOSOMAL PROTEIN L1
Seq. No.
                   141315
                   LIB25-096-Q1-E1-D2
Seq. ID
Method
                   BLASTN
NCBI GI
                   g1495250
                   75
BLAST score
                   3.0e-34
E value
Match length
                   149
                   88
% identity
NCBI Description A.thaliana mRNA for heat-shock protein
Seq. No.
                   141316
                   LIB25-096-Q1-E1-D4
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3299824
                   192
BLAST score
                   1.0e-104
E value
                   222
Match length
                   95
% identity
                  Arabidopsis thaliana BAC F4C21 from chromosome IV, top arm,
NCBI Description
                   near 17 cM, complete sequence [Arabidopsis thaliana]
                   141317
Seq. No.
                   LIB25-096-Q1-E1-D5
Seq. ID
Method
                   BLASTX
```

g2440035

Match length

```
BLAST score
                   335
E value
                   6.0e-32
Match length
                   71
% identity
                   90
NCBI Description
                  (X98544) endo-1,4-beta-glucanase [Arabidopsis thaliana]
Seq. No.
                   141318
                   LIB25-096-Q1-E1-D7
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3093479
BLAST score
                   184
E value
                   2.0e-99
Match length
                   212
% identity
                   97
NCBI Description
                   Arabidopsis thaliana nucleoside diphosphate kinase type 2
                   (NDPK2) gene, complete cds
Seq. No.
                   141319
Seq. ID
                   LIB25-096-Q1-E1-E10
Method
                   BLASTN
NCBI GI
                   q4218109
BLAST score
                   200
E value
                   1.0e-109
Match length
                   200
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F16A16
                   (ESSAII project)
Seq. No.
                   141320
Seq. ID
                   LIB25-096-Q1-E1-E12
Method
                   BLASTN
NCBI GI
                   g4589418
BLAST score
                   102
E value
                   2.0e-50
Match length
                   200
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K21G20, complete sequence
Seq. No.
                   141321
Seq. ID
                  LIB25-096-Q1-E1-E4
Method
                  BLASTN
NCBI GI
                  g2459406
BLAST score
                  182
E value
                   3.0e-98
Match length
                  182
% identity
                   100
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F4P9 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141322
Seq. ID
                  LIB25-096-Q1-E1-E5
Method
                  BLASTN
NCBI GI
                  g4538949
BLAST score
                  216
                  1.0e-118
E value
```

BLAST score

```
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F24G24
NCBI Description
                  (ESSA project)
Seq. No.
                  141323
Seq. ID
                  LIB25-096-Q1-E1-E6
Method
                  BLASTX
NCBI GI
                  g1346523
BLAST score
                  311
                  4.0e-29
E value
Match length
                  59
% identity
                  S-ADENOSYLMETHIONINE SYNTHETASE (METHIONINE
NCBI Description
                  ADENOSYLTRANSFERASE) (ADOMET SYNTHETASE)
                  >gi_1084428_pir__S49491 methionine adenosyltransferase (EC
                  2.5.1.6) - garden petunia >gi_559506_emb_CAA57696_ (X82214)
                  methionine adenosyltransferase [Petunia x hybrida]
                  141324
Seq. No.
Seq. ID
                  LIB25-096-Q1-E1-E7
                  BLASTN
Method
NCBI GI
                  g3449334
BLAST score
                  163
                  8.0e-87
E value
                  205
Match length
                  86
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MYH9, complete sequence [Arabidopsis thaliana]
                  141325
Seq. No.
Seq. ID
                  LIB25-096-Q1-E1-E9
                  BLASTX
Method
                  q132939
NCBI GI
BLAST score
                  284
                  5.0e-26
E value
                  51
Match length
                  100
% identity
                  60S RIBOSOMAL PROTEIN L3 >gi_81657_pir__JQ0771 ribosomal
NCBI Description
                  protein L3 (ARP1) - Arabidopsis thaliana >gi 166858
                  (M32654) ribosomal protein [Arabidopsis thalīana]
Seq. No.
                  141326
Seq. ID
                  LIB25-096-Q1-E1-F2
Method
                  BLASTN
NCBI GI
                  g3548797
BLAST score
                  158
                  8.0e-84
E value
                  158
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC T18E12 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  141327
Seq. No.
Seq. ID
                  LIB25-096-Q1-E1-F6
Method
                  BLASTX
NCBI GI
                  g4105798
```

```
E value
                    2.0e-25
  Match length
                    68
  % identity
                    60
 NCBI Description
                    (AF049930) PGP237-11 [Petunia x hybrida]
 Seq. No.
                    141328
 Seq. ID
                    LIB25-096-Q1-E1-F7
 Method
                    BLASTX
 NCBI GI
                    q4056505
 BLAST score
                    306
 E value
                    1.0e-28
 Match length
                    63
 % identity
                    97
                    (AC005896) nodulin-like protein [Arabidopsis thaliana]
 NCBI Description
 Seq. No.
                    141329
 Seq. ID
                    LIB25-096-Q1-E1-F8
 Method
                    BLASTN
 NCBI GI
                    g4510360
 BLAST score
                    108
 E value
                    6.0e-54
 Match length
                    108
 % identity
                    100
                   Arabidopsis thaliana chromosome II BAC F11F19 genomic
 NCBI Description
                   sequence, complete sequence
 Seq. No.
                   141330
 Seq. ID
                   LIB25-096-Q1-E1-F9
 Method
                   BLASTX
 NCBI GI
                   g1169201
 BLAST score
                   228
 E value
                   2.0e-19
Match length
                   54
 % identity
                   93
NCBI Description
                   DNA-DAMAGE-REPAIR/TOLERATION PROTEIN DRT112 PRECURSOR
                   >gi_421830_pir__S33707 DRT112 protein - Arabidopsis
                   thaliana >gi_166696 (M98456) DRT112 [Arabidopsis thaliana]
Seq. No.
                   141331
Seq. ID
                   LIB25-096-Q1-E1-G10
Method
                   BLASTX
NCBI GI
                   g2501011
BLAST score
                   252
E value
                   3.0e-22
Match length .
                   62
% identity
                   77
                   ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS)
NCBI Description
                   >gi_1652625_dbj_BAA17545_ (D90907) isoleucyl-tRNA
                   synthetase [Synechocystis sp.]
Seq. No.
                   141332
Seq. ID
                  LIB25-096-Q1-E1-G2
Method
                   BLASTX
NCBI GI
                   q4558549
BLAST score
                   377
E value
                  8.0e-37
Match length
```

```
100
% identity
                   (AC007138) putative SecA-type chloroplast protein transport
NCBI Description
                  factor [Arabidopsis thaliana]
                                                        . . .
Seq. No.
                  141333
                  LIB25-096-Q1-E1-G5
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3449330
BLAST score
                  65
E value
                  2.0e-28
Match length
                  133
% identity
                  87
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MDJ14, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141334
                  LIB25-096-Q1-E1-G6
Seq. ID
Method
                  BLASTX
                  q4490706
NCBI GI
BLAST score
                  280
E value
                  2.0e-25
Match length
                  60
% identity
NCBI Description
                  (AL035680) putative protein [Arabidopsis thaliana]
                  141335
Seq. No.
Seq. ID
                  LIB25-096-Q1-E1-H10
                  BLASTX
Method
NCBI GI
                  q2104957
BLAST score
                  304
E value
                  2.0e-28
Match length
                  55
% identity
                  100
                  (U96924) immunophilin [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141336
Seq. ID
                  LIB25-096-Q1-E1-H2
Method
                  BLASTN
                  q166645
NCBI GI
BLAST score
                  116
E value
                  7.0e-59
Match length
                  160
% identity
                  93
                  Arabidopsis thaliana light-harvesting chlorophyll
NCBI Description
                  a/b-binding protein (Cab4) mRNA, complete cds
Seq. No.
                  141337
Seq. ID
                  LIB25-096-Q1-E1-H5
                  BLASTN
Method
                  q3869067
NCBI GI
BLAST score
                  215
                  1.0e-118
E value
Match length
                  215
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
```

MCK7, complete sequence [Arabidopsis thaliana]

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```
Seq. No.
                   141338
Seq. ID
                  LIB25-097-Q1-E1-A11
Method
                  BLASTX,
NCBI GI
                  g2244959
BLAST score
                  242
                   5.0e-21
E value
                   53
Match length
% identity
                   89
                   (Z97340) similar to B.vulgaris CMS-associated mitochondrial
NCBI Description
                   ... (reverse transcriptase) [Arabidopsis thaliana]
                   141339
Seq. No.
                  LIB25-097-Q1-E1-A2
Seq. ID
Method
                  BLASTX
                   g2853080
NCBI GI
                  296
BLAST score
                   3.0e-27
E value
Match length
                   66
% identity
                   (AL021768) TMV resistance protein N-like [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   141340
                  LIB25-097-Q1-E1-A4
Seq. ID
Method
                  BLASTN
NCBI GI
                   q3414927
BLAST score
                   200
                   1.0e-109
E value
                   212
Match length
% identity
                   99
                  Arabidopsis thaliana PsbY precursor (psbY) mRNA, nuclear
NCBI Description
                   gene encoding chloroplast protein, complete cds
Seq. No.
Seq. ID
                  LIB25-097-Q1-E1-B11
Method
                  BLASTX
NCBI GI
                   g2501056
                   274
BLAST score
                   8.0e-25
E value
Match length
                   54
% identity
                   100
                   SERYL-TRNA SYNTHETASE (SERINE--TRNA LIGASE) (SERRS)
NCBI Description
                   >gi_2129737_pir__S71293 seryl-tRNA synthetase - Arabidopsis
                   thaliana >gi 13\overline{59}497_emb_CAA94388_ (Z70313) seryl-tRNA
                  Synthetase [Arabidopsis thaliana]
Seq. No.
                   141342
                  LIB25-097-Q1-E1-C12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3337091
BLAST score
                   143
                   2.0e-09
E value
                   47
Match length
% identity
                   (AB016204) polygalacturonase inhibitor (PGIP) [Citrus
NCBI Description
```

unshiu]

```
Seq. No.
                  141343
Seq. ID
                  LIB25-097-Q1-E1-C9
Method
                  BLASTN
NCBI GI
                  g4263373
BLAST score
                  109
                  1.0e-54
E value
                  170
Match length
                  100
% identity
                  Arabidopsis thaliana BAC T15G18 from chromosome IV, near 25
NCBI Description
                  cM, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141344
                  LIB25-097-Q1-E1-D12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g730583
BLAST score
                  148
E value
                  5.0e-10
Match length
                  46
                  67
% identity
                  60S ACIDIC RIBOSOMAL PROTEIN P2 >gi 551267 emb_CAA55047_
NCBI Description
                  (X78213) 60s acidic ribosomal protein P2 [Parthenium
                  argentatum]
                  141345
Seq. No.
                  LIB25-097-Q1-E1-D7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4580530
BLAST score
                  100
                  2.0e-49
E value
Match length
                  100
% identity
                  100
NCBI Description
                  Arabidopsis thaliana scarecrow-like 14 (SCL14) mRNA,
                  partial cds
Seq. No.
                  141346
Seq. ID
                  LIB25-097-Q1-E1-D9 .
Method ·
                  BLASTN
NCBI GI
                  g2854069
BLAST score
                  160
E value
                  5.0e-85
Match length
                  160
% identity
                  100
                  Arabidopsis thaliana putative histone deacetylase (HD2)
NCBI Description
                  mRNA, complete cds
Seq. No.
                  141347
Seq. ID
                  LIB25-097-Q1-E1-E10
Method
                  BLASTX
NCBI GI
                  g3128228
BLAST score
                  314
                  2.0e-29
E value
Match length
                  59
% identity
                  (AC004077) putative ribosomal protein L18A [Arabidopsis
NCBI Description
                  thaliana] >gi 3337376 (AC004481) putative ribosomal protein
```

L18A [Arabidopsis thaliana]

Match length

```
Seq. No.
                  141348
                  LIB25-097-Q1-E1-E11
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4240115
BLAST score
                  190
E value
                  1.0e-103
Match length
                  190
% identity
                  100
                  Arabidopsis thaliana mRNA for NADH-cytochrome b5 reductase,
NCBI Description
                  complete cds
                  141349
Seq. No.
                  LIB25-097-Q1-E1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g542200
BLAST score
                  248
E value
                  9.0e-22
Match length
                  67
% identity
                  69
                  hypothetical protein - garden asparagus
NCBI Description
                  >gi 452714_emb_CAA54526_ (X77320) unknown [Asparagus
                  officinalis]
                  141350
Seq. No.
Seq. ID
                  LIB25-097-Q1-E1-E6
Method
                  BLASTX
NCBI GI
                  g2507281
BLAST score
                  383
E value
                  3.0e-37
Match length
                  69
% identity
                  100
                  GTP-BINDING NUCLEAR PROTEIN RAN-2 >gi 1668706 emb CAA66048
NCBI Description
                  (X97380) atran2 [Arabidopsis thaliana]
Seq. No.
                  141351
                  LIB25-097-Q1-E1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g115767
BLAST score
                  249
                  7.0e-22
E value
Match length
                  50
                  100
% identity
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                  (CAB-165/180) (LHCP) >gi_81603_pir__A29280 chlorophyll
                  a/b-binding protein ab165 - Arabidopsis thaliana
                  >gi 16368 emb CAA27540 (X03907) chlorophyll a/b binding
                  protein (LHCP AB 65) [Arabidopsis thaliana]
                  >qi 16372 emb CAA27541 (X03908) chlorophyll a/b binding
                  protein (LHCP AB 180) [Arabidopsis thaliana]
                  141352
Seq. No.
                  LIB25-097-Q1-E1-F9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1169544
BLAST score
                  343
E value
                  6.0e-33
```

```
100
% identity
NCBI Description ERD1 PROTEIN PRECURSOR >gi 541859 pir JN0901 ERD1 protein
                  - Arabidopsis thaliana >gi 497629 dbj BAA04506 (D17582)
                  ERD1 protein [Arabidopsis thaliana]
Seq. No.
                  141353
Seq. ID
                  LIB25-097-Q1-E1-G10
Method
                  BLASTX
NCBI GI
                  q3335353
BLAST score
                  223
E value
                  8.0e-19
                  64
Match length
% identity
                  64
                   (AC004512) Similar to cytochrome P450 gb X90458 from A.
NCBI Description
                  thaliana. [Arabidopsis thaliana]
Seq. No.
                  141354
Seq. ID
                  LIB25-097-Q1-E1-H11
Method
                  BLASTX
NCBI GI
                  g1465368
BLAST score
                  306
                  1.0e-28
E value
Match length
                  66
                  85
% identity
                  (X99548) bHLH protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141355
Seq. ID
                  LIB25-098-Q1-E1-A2
Method
                  BLASTN
NCBI GI
                  g3128137
BLAST score
                  120
E value
                  2.0e-61
Match length
                  120
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K9I9, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141356
Seq. ID
                  LIB25-098-Q1-E1-B2
Method
                  BLASTX
NCBI GI
                  g4432835
BLAST score
                  296
E value
                  6.0e-27
Match length
                  102
% identity
                  53
                  (AC006283) unknown protein [Arabidopsis thaliana]
NCBI Description
                  141357
Seq. No.
Seq. ID
                  LIB25-098-Q1-E1-C11
Method
                  BLASTN
NCBI GI
                  g430946
BLAST score
                  141
E value
                  7.0e-74
Match length
                  141
% identity
                  100
NCBI Description
                  Arabidopsis thaliana PSI type III chlorophyll a/b-binding
                  protein (Lhca3*1) mRNA, complete cds
```

```
141358
Seq. No.
                  LIB25-098-Q1-E1-D3
Seq. ID
Method
                  BĽASTX
NCBI GI
                  q2129577
BLAST score
                  272
E value
                   4.0e-24
Match length
                  51
                  100
% identity
                  DnaJ homolog protein - Arabidopsis thaliana >qi 727357
NCBI Description
                   (U22340) DnaJ homolog [Arabidopsis thaliana]
Seq. No.
                  141359
                  LIB25-098-Q1-E1-F12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3702734
BLAST score
                  245
E value
                  1.0e-135
Match length
                  377
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MNB8, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141360
                  LIB25-098-Q1-E1-G10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1176604
BLAST score
                  174
E value
                  1.0e-12
Match length
                  102
% identity
                  HYPOTHETICAL 37.4 KD PROTEIN T09A5.9 IN CHROMOSOME III
NCBI Description
                  >gi 3879646 emb CAA85336 (Z36753) similar to SDS22
                  protein; cDNA EST yk434d3.3 comes from this gene
                  [Caenorhabditis elegans]
Seq. No.
                  141361
Seq. ID
                  LIB25-098-Q1-E1-G5
Method
                  BLASTN
NCBI GI
                  g2564049
                  376
BLAST score
E value
                  0.0e+00
Match length
                  376
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, Pl clone:
NCBI Description
                  MLE2, complete sequence [Arabidopsis thaliana]
                  141362
Seq. No.
Seq. ID
                  LIB25-098-Q1-E1-G7
Method
                  BLASTX
NCBI GI
                  g2244935
BLAST score
                  313
E value
                  6.0e-29
Match length
                  98
% identity
                   (Z97339) hypothetical protein [Arabidopsis thaliana]
NCBI Description
```

Method

BLASTN

```
Seq. No.
                  141363
Seq. ID
                  LIB25-098-Q1-E1-H10
Method
                  BLASTX
NCBI GI
                  g3738257
BLAST score
                  349
E value
                  4.0e-33
                  76
Match length
% identity
                  89
NCBI Description
                  (AB018410) cytosolic phosphoglycerate kinase 1 (Populus
                  nigra]
                  141364
Seq. No.
                  LIB25-099-Q1-E1-B11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3193311
BLAST score
                  173
E value
                  1.0e-92
Match length
                  324
% identity
                  98
NCBI Description Arabidopsis thaliana BAC F6N15
                  141365
Seq. No.
Seq. ID
                  LIB25-099-Q1-E1-C4
Method
                  BLASTX
NCBI GI
                  g3738338
BLAST score
                  488
E value
                  2.0e-49
Match length
                  99
% identity
                  (AC005170) putative polygalacturonase [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  141366
Seq. ID
                  LIB25-099-Q1-E1-C6
                  BLASTN
Method
NCBI GI
                  g2924729
BLAST score
                  201
E value
                  1.0e-109
Match length
                  327
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MNA5, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141367
                  LIB25-099-Q1-E1-C8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2351067
BLAST score
                  225
E value
                  1.0e-123
                  399
Match length
% identity
                  50
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MPO12, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141368
                  LIB25-099-Q1-E1-D3
Seq. ID
```

```
NCBI GI
                   g2264314
BLAST score
                   416
E value
                  0.0e+00
Match length
                   416
% identity
                   100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MQK4, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141369
Seq. ID
                   LIB25-099-Q1-E1-D4
Method
                   BLASTX
NCBI GI
                   q4388717
BLAST score
                   415
                   8.0e-41
E value
                   119
Match length
% identity
NCBI Description
                   (AC006413) putative nuclear phosphoprotein (contains
                  multiple TPR repeats prosite:QDOC50005) [Arabidopsis
                  thaliana]
Seq. No.
                   141370
                  LIB25-099-Q1-E1-D7
Seq. ID
Method
                  BLASTX
NCBI GI
                   q733554
BLAST score
                   355
E value
                   9.0e-34
Match length
                  112
% identity
                   59
                   (U23450) similar to RNA-binding protein [Caenorhabditis
NCBI Description
                  elegans]
Seq. No.
                  141371
Seq. ID
                  LIB25-099-Q1-E1-E7
Method
                  BLASTN
NCBI GI
                  g4580386
BLAST score
                   287
E value
                   1.0e-160
Match length
                  295
% identity
                   99
                  Arabidopsis thaliana chromosome II BAC T8018 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  141372
Seq. ID
                  LIB25-099-Q1-E1-E9
Method
                  BLASTN
                  q4079614
NCBI GI
                  180
BLAST score
                  1.0e-96
E value
Match length
                  373
% identity
                  100
                  Arabidopsis thaliana chromosome I BAC F21M11 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  141373
Seq. No.
Seq. ID
                  LIB25-099-Q1-E1-F9
Method
                  BLASTX
NCBI GI
                  g267079
```

E value

7.0e-84

```
BLAST score
                  594
E value
                   9.0e-62
Match length
                  107
                  100
% identity
                  TUBULIN BETA-6 CHAIN >gi 320187_pir__JQ1590 tubulin beta-6
NCBI Description
                  chain - Arabidopsis thaliana >gi 166904 (M84703) beta-6
                  tubulin [Arabidopsis thaliana]
Seq. No.
                  141374
                  LIB25-100-Q1-E1-A9
Seq. ID
Method
                  BLASTX
                  g3953475
NCBI GI
BLAST score
                  163
E value
                  3.0e-11
Match length
                  56
% identity
                  52
                  (AC002328) F2202.20 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141375
                  LIB25-100-Q1-E1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3643598
BLAST score
                  556
E value
                  2.0e-57
Match length
                  107
% identity
                  100
NCBI Description
                   (AC005395) putative poly(A) polymerase [Arabidopsis
Seq. No.
                  141376
Seq. ID
                  LIB25-100-Q1-E1-F7
Method
                  BLASTX
NCBI GI
                  q3420049
BLAST score
                  635
E value
                  1.0e-66
Match length
                  122
% identity
                   (AC004680) putative protein phosphatase 2C [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  141377
Seq. ID
                  LIB25-100-Q1-E1-H9
Method
                  BLASTN
NCBI GI
                  q4376087
BLAST score
                  92
                  2.0e-44
E value
Match length
                  124
% identity
                  94
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
                  fragment No
Seq. No.
                  141378
Seq. ID
                  LIB25-101-Q1-E1-B4
Method
                  BLASTN
NCBI GI
                  g2924505
BLAST score
                  158
```

. .

```
202
Match length
% identity
                   95
                  Arabidopsis thaliana DNA chromosome 4, BAC clone M4E13
NCBI Description
                   (ESSAII project)
                  141379
Seq. No.
                  LIB25-101-Q1-E1-D12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4587986
BLAST score
                  59
                  1.0e-24
E value
Match length
                  71
                   96
% identity
                  Arabidopsis thaliana ABA-regulated gene cluster, complete
NCBI Description
                  sequence
Seq. No.
                  141380
Seq. ID
                  LIB25-102-Q1-E1-B1
Method
                  BLASTN
NCBI GI
                  q4558586
BLAST score
                  122
E value
                   4.0e-62
Match length
                  333
                   99
% identity
                  Arabidopsis thaliana chromosome 1 BAC T518 sequence,
NCBI Description
                  complete sequence
Seq. No.
                  141381
Seq. ID
                  LIB25-102-Q1-E1-D10
Method
                  BLASTX
NCBI GI
                  q115783
BLAST score
                   458
E value
                   6.0e-46
Match length
                  86
                   100
% identity
NCBI Description
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
                   (CAB-140) (LHCP) >gi 16376 emb CAA27543 (X03909)
                  chlorophyll a/b binding protein (LHCP AB 140) [Arabidopsis
                  thaliana]
Seq. No.
                  141382
Seq. ID
                  LIB25-102-Q1-E1-D8
Method
                  BLASTN
NCBI GI
                  q3046855
BLAST score
                  339
E value
                  0.0e + 00
Match length
                  339
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MSL1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141383
Seq. ID
                  LIB25-102-Q1-E1-E11
Method
                  BLASTN
NCBI GI
                  q4467358
BLAST score
                  383
E value
                  0.0e + 00
```

Sec. 2.

NCBI Description

```
403
Match length
                  99
% identity
NCBI Description
                  Arabidopsis thaliana mRNA for Phosphatidylinositol 4-Kinase
Seq. No.
                  141384
                  LIB25-102-Q1-E1-G7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2583106
BLAST score
                  246
E value
                  1.0e-136
Match length
                  246
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F4L23 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141385
Seq. ID
                  LIB25-102-Q1-E1-G8
Method
                  BLASTX
NCBI GI
                  g1617013
BLAST score
                  220
                  4.0e-18
E value
Match length
                  45
% identity
NCBI Description
                  (Y07745) histone H2B like protein [Arabidopsis thaliana]
                  141386
Seq. No.
Seq. ID
                  LIB25-103-Q1-E1-D1
Method
                  BLASTX
NCBI GI
                  q3860262
BLAST score
                  434
E value
                  4.0e-43
Match length
                  99
% identity
                  (AC005824) unknown protein [Arabidopsis thaliana]
NCBI Description
                  141387
Seq. No.
                  LIB25-103-Q1-E1-F1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3152590
BLAST score
                  240
E value
                  2.0e-20
Match length
                  76
% identity
NCBI Description
                  (AC002986) Similar to protein serine/threonine kinase NPK15
                  qb D31737 from Nicotiana tabacum. [Arabidopsis thaliana]
                  141388
Seq. No.
                  LIB25-103-Q1-E1-F7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q473874
BLAST score
                  152
                  5.0e-10
E value
                  116
Match length
% identity
```

[Nicotiana tabacum]

(U08285) a membrane-associated salt-inducible protein

Seq. ID

```
Seq. No.
                    141389
  Seq. ID
                    LIB25-104-Q1-E1-A12
 Method
                    BLASTN
 NCBI GI
                    g4757403
 BLAST score
                    140
 E value
                    7.0e-73
 Match length
                    337
 % identity
                    100
 NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                    MJL12, complete sequence
 Seq. No.
                    141390
 Seq. ID
                    LIB25-104-Q1-E1-A7
 Method
                    BLASTN
 NCBI GI
                    q3510344
 BLAST score
                    163
 E value
                    1.0e-86
 Match length
                    354
 % identity
                    100
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
 NCBI Description
                   MJG14, complete sequence [Arabidopsis thaliana]
 Seq. No.
                   141391
 Seq. ID
                   LIB25-104-Q1-E1-B5
Method
                   BLASTX
NCBI GI
                   g1531762
BLAST score
                   155.
E value
                   2.0e-10
Match length
                   44
% identity
                   70
NCBI Description
                   (Y07765) S-adenosylmethionine decarboxylase [Arabidopsis
                   thaliana]
Seq. No.
                   141392
Seq. ID
                   LIB25-104-Q1-E1-B8
Method
                   BLASTX
NCBI GI
                   g625977
BLAST score
                   471
E value
                   2.0e-47
Match length
                   92
% identity
                   100
NCBI Description
                  p40 protein homolog - Arabidopsis thaliana >gi_402904
                   (U01955) laminin receptor-like protein [Arabidopsis
                   thaliana]
Seq. No.
                  141393
Seq. ID
                  LIB25-104-Q1-E1-C11
Method
                  BLASTX
NCBI GI
                  g1617013
BLAST score
                  262
E value
                  6.0e-23
Match length
                  52
% identity
NCBI Description
                  (Y07745) histone H2B like protein [Arabidopsis thaliana]
Seq. No.
                  141394
```

LIB25-104-Q1-E1-C3

BLASTN Method NCBI GI g3176701 BLAST score 249 1.0e-138 E value Match length 317 % identity 98 Arabidopsis thaliana chromosome II BAC T20K24 genomic NCBI Description sequence, complete sequence [Arabidopsis thaliana] Seq. No. 141395 Seq. ID LIB25-104-Q1-E1-C5 Method BLASTN NCBI GI g2351064 BLAST score 248 E value 1.0e-137 Match length 326 % identity 83 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MDJ22, complete sequence [Arabidopsis thaliana] Seq. No. 141396 Seq. ID LIB25-104-Q1-E1-D6 Method BLASTN NCBI GI g2264310 BLAST score 324 0.0e+00E value 324 Match length 100 % identity Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MKP11, complete sequence [Arabidopsis thaliana] 141397 Seq. No. Seq. ID LIB25-104-Q1-E1-D8 BLASTX Method NCBI GI g1362005 BLAST score 562 E value 4.0e-58 Match length 116 % identity 98 secY protein homolog precursor - Arabidopsis thaliana NCBI Description 141398 Seq. No. Seq. ID LIB25-104-Q1-E1-E12 Method BLASTN NCBI GI g2654008 BLAST score 142 4.0e-74 E value Match length 242 100 % identity NCBI Description Arabidopsis thaliana Rho-like GTP binding protein (Rop4) mRNA, complete cds

Seq. No. 141399 Seq. ID

LIB25-104-Q1-E1-F8

Method BLASTN g2098816 NCBI GI BLAST score 352

```
0.0e+00
E value
Match length
                 . 352
% identity
                  100
NCBI Description Arabidopsis thaliana BAC F19G10, complete sequence
Seq. No.
                  141400
                  LIB25-104-Q1-E1-F9
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2494106
BLAST score
                  295
E value
                  1.0e-165
Match length
                  332
% identity
                  97
NCBI Description
                  Arabidopsis thaliana chromosome 1 YAC YUP8H12R sequence,
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  141401
Seq. ID
                  LIB25-104-Q1-E1-G3
Method
                  BLASTX
NCBI GI
                  g131398
BLAST score
                  434
E value
                  4.0e-43
                  104
Match length
% identity
                  PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR
NCBI Description
                  >qi 72714 pir F2MU10 photosystem II 10K protein precursor
                  - Arabidopsis thaliana >gi 16447 emb CAA39441 (X55970)
                  photosystem II 10 kDa polypeptide [Arabidopsis thaliana]
                  >gi_3152571 (AC002986) Match to photosystem II 10kDa
                  polypeptide gb X55970. ESTs gb Z17693, gb_N37616,
                  gb_T41858, gb_T88021, gb_R37531, gb_T04679, gb_N37520,
                  gb N64965, gb Z17592 and gb N65338, gb N37466 and gb T45400
                  come from this gene. [Arabidopsis
Seq. No.
                  141402
                  LIB25-104-Q1-E1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2911075
BLAST score
                  320
E value
                  9.0e-30
Match length
                  113
% identity
NCBI Description (AL021960) putative protein [Arabidopsis thaliana]
                  141403
Seq. No.
Seq. ID
                  LIB25-104-01-E1-H5
Method
                  BLASTX
NCBI GI
                  g4539316
BLAST score
                  486
E value
                  3.0e-49
Match length
                  100
% identity
                  (AL035679) putative fructose-bisphosphate aldolase
NCBI Description
                  [Arabidopsis thaliana]
```

141404

LIB25-104-Q1-E1-H9

Seq. No. Seq. ID

NCBI GI

```
Method
                  BLASTX
NCBI GI
                  g4455156
BLAST score
                  538
E value
                  2.0e-55
Match length
                  102
                  100
% identity
                   (AL021712) CDP-diacylglycerol synthetase-like protein
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  141405
                  LIB25-105-Q1-E1-B12 ·
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3702732
BLAST score
                  351
E value
                  0.0e + 00
Match length
                  351
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MGF10, complete sequence [Arabidopsis thaliana]
                  141406
Seq. No.
Seq. ID
                  LIB25-105-Q1-E1-B4
Method
                  BLASTN
NCBI GI
                  g2570223
BLAST score
                  209
                  1.0e-114
E value
Match length
                  255
                  94
% identity
                  Arabidopsis thaliana chromosome 1 BAC F20D22 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  141407
Seq. ID
                  LIB25-105-Q1-E1-B7
                  BLASTN
Method
                  q2564047
NCBI GI
BLAST score
                  314
                  1.0e-176
E value
Match length
                  314
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MJB21, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141408
Seq. ID
                  LIB25-105-Q1-E1-C7
Method
                  BLASTN
                  q4580744
NCBI GI
BLAST score
                  174
                  4.0e-93
E value
Match length
                  371
% identity
                  Sequence of BAC F15I1 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence
Seq. No.
                  141409
Seq. ID
                  LIB25-105-Q1-E1-D12
Method
                  BLASTX
```

q1542941

BLAST score

```
BLAST score
                  195
E value
                  5.0e-15
Match length
                  .64
                . 62
% identity
NCBI Description (X78116) Acetoacetyl-coenzyme A thiolase [Raphanus sativus]
Seq. No.
                  141410
                  LIB25-105-Q1-E1-D8
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2059328
BLAST score
                  179
                  4.0e-96
E value
                  372
Match length
                  98
% identity
NCBI Description A.thaliana gene encoding shaggy-like kinase gamma
                  141411
Seq. No.
                  LIB25-105-Q1-E1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1707032
                  327
BLAST score
                  2.0e-30
E value
Match length
                  122
                  30
% identity
                  (U80445) coded for by C. elegans cDNA yk13g5.3; coded for
NCBI Description
                  by C. elegans cDNA yk21g6.3; coded for by C. elegans cDNA
                  CEMSE18F; coded for by C. elegans cDNA yk126b1.3; coded for
                  by C. elegans cDNA yk65h8.3; coded for by C. elegans cDNA
                  yk65h8
Seq. No.
                  141412
Seq. ID
                  LIB25-105-Q1-E1-F4
Method
                  BLASTX
NCBI GI
                  g1585970
BLAST score
                  321
                  8.0e-30
E value
                  118
Match length
                  51
% identity
NCBI Description cellulase [Lathyrus odoratus]
                  141413
Seq. No.
Seq. ID
                  LIB25-105-Q1-E1-F6
Method
                  BLASTX
NCBI GI
                  g4038044
BLAST score
                  515
E value
                  1.0e-52
                  123
Match length
% identity
                   (AC005936) unknown protein [Arabidopsis thaliana]
NCBI Description
                  >gi_4406788_gb_AAD20098_ (AC006532) unknown protein
                  [Arabidopsis thaliana]
                  141414
Seq. No.
                  LIB25-105-Q1-E1-G3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4757401
```

NCBI Description

```
0.0e + 00
E value
Match length
                   416
% identity
                   62
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MGH6, complete sequence
Seq. No.
                  141415
                  LIB25-105-Q1-E1-G8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q639722
BLAST score
                   474
                   9.0e-48
E value
Match length
                  117
                   76
% identity
                   (L27484) calcium-dependent protein kinase [Zea mays]
NCBI Description
                  141416
Seq. No.
Seq. ID
                  LIB25-105-Q1-E1-H1
Method
                  BLASTX
NCBI GI
                  g3033375
BLAST score
                  544
                   5.0e-56
E value
                  110
Match length
                   99
% identity
                   (AC004238) putative berberine bridge enzyme [Arabidopsis
NCBI Description
                   thaliana]
                   141417
Seq. No.
Seq. ID
                  LIB25-105-Q1-E1-H3
Method
                  BLASTX
                  g1864017
NCBI GI
                  512
BLAST score
E value
                   3.0e-52
                  102
Match length
% identity
                   94
                   (D63396) elongation factor-1 alpha [Nicotiana tabacum]
NCBI Description
                  141418
Seq. No.
                  LIB25-106-Q1-E1-E5
Seq. ID
Method
                  BLASTN
                  g1707006
NCBI GI
                                                                   . 4
BLAST score
                  250
                   1.0e-138
E value
                  298
Match length
                   96
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T1B8 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
                  141419
Seq. No.
Seq. ID
                  LIB25-106-Q1-E1-F6
Method
                  BLASTX
NCBI GI
                  g417103
                   623
BLAST score
                   4.0e-65
E value
                  124
Match length
                   100
% identity
                  HISTONE H3.2, MINOR >gi_282871_pir__S24346 histone
```

H3.3-like protein - Arabidopsis thaliana >gi\_16324\_emb\_CAA42957\_ (X60429) histone H3.3 like protein [Arabidopsis thaliana] >gi 404825 emb CAA42958 (X60429) histone H3.3 like protein [Arabidopsis thaliana] >gi\_488563 (U09458) histone H3.2 [Medicago sativa] >gi 488567 ( $\overline{\text{U0}}$ 9460) histone H3.2 [Medicago sativa] >gi\_488569 (U09461) histone H3.2 [Medicago sativa] >gi 488575 (U09464) histone H3.2 [Medicago sativa] >gi\_488577 (U09465) histone H3.2 [Medicago sativa] >gi\_510911 emb CAA56153\_ (X79714) histone H3 [Lolium temulentum] >gi 1435157 emb CAA58445 (X83422) histone H3 variant H3.3 [Lycopersicon esculentum] >qi 2558944 (AF024716) histone 3 [Gossypium hirsutum] >gi 3273350 dbj BAA31218 (AB015760) histone H3 [Nicotiana tabacum] >qi 3885890 (AFO93633) histone H3 [Oryza sativa] >gi 4038469 gb AAC97380 (AF109910) histone H3 [Porteresia coarctata] >gi\_4490754\_emb\_CAB38916.1\_ (AL035708) histone H3.3 [Arabidopsis thaliana] >gi\_4490755\_emb\_CAB38917.1\_ (AL035708) Histon H3 [Arabidopsis thaliana]

```
Seq. No.
                  141420
Seq. ID
                  LIB25-106-Q1-E1-H11
Method
                  BLASTX
NCBI GI
                  q4335748
                  333
BLAST score
E value
                  2.0e-31
Match length
                  68
                  100
% identity
                  (AC006284) putative A3 protein [Vigna unguiculata]
NCBI Description
                  (integral membrane protein) [Arabidopsis thaliana]
Seq. No.
                  141421
                  LIB25-107-Q1-E1-D6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3776005
BLAST score
                  597
E value
                  4.0e-62
Match length
                  131
% identity
                  90
                  (AJ010466) RNA helicase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141422
                  LIB25-107-Q1-E1-E11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q136636
BLAST score
                  406
E value
                  8.0e-40
Match length
                  76
% identity
                  UBIQUITIN-CONJUGATING ENZYME E2-17 KD 1 (UBIQUITIN-PROTEIN
NCBI Description
                  LIGASE 1) (UBIQUITIN CARRIER PROTEIN 1)
                  >qi 1076424 pir S43781 ubiquitin-conjugating enzyme UBC1 -
                 -Arabidopsis thaliana >gi 442594 pdb_1AAK_ Ubiquitin
                  Conjugating Enzyme (E.C.6.3.2.19) >gi 2981894_pdb 2AAK_
```

[Arabidopsis thaliana]

Ubiquitin Conjugating Enzyme From Arabidopsis Thaliana >gi\_166924 (M62721) ubiquitin carrier protein [Arabidopsis thaliana] >qi\_431260 (L19351) ubiquitin conjugating enzyme

```
141423
Seq. No.
Seq. ID
                  LIB25-107-Q1-E1-E2
Method
                  BLASTN
NCBI GI
                  g2244991
BLAST score
                  306
E value
                   1.0e-172
Match length
                  306
                   100
% identity
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                   fragment No
Seq. No.
                  141424
                  LIB25-107-Q1-E1-F2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2264317
                   306
BLAST score
                   1.0e-172
E value
Match length
                   306
                   100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUG13, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141425
                  LIB25-107-Q1-E1-F5
Seq. ID
Method
                  BLASTX
NCBI GI
                   g3522961
BLAST score
                   218
E value
                   3.0e-18
Match length
                   47
                   89
% identity
                   (AC004411) putative pto kinase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   141426
Seq. ID
                  LIB25-107-Q1-E1-F7
Method
                  BLASTN
                   q4581084
NCBI GI
BLAST score
                   149
                   2.0e-78
E value
                   181
Match length
% identity
                   96
                  Arabidopsis thaliana chromosome I BAC T30F21 genomic
NCBI Description
                   sequence, complete sequence
                   141427
Seq. No.
                   LIB25-107-Q1-E1-G9
Seq. ID
Method
                   BLASTX
NCBI GI
                   q2911886
BLAST score
                   162
                   1.0e-11
E value
                   52
Match length
% identity
                   (AF047663) contains similarity to signal recognition
NCBI Description
                   particle subunit 54 (SRP54)-type domains (Pfam; SRP54,
                   score; 71.31); partial CDS [Caenorhabditis elegans]
```

141428

Seq. No.

NCBI GI

```
Seq. ID
                   LIB25-108-Q1-E1-E6
Method
                   BLASTX
NCBI GI
                   g4165488
BLAST score
                   554
E value
                   4.0e-57
Match length
                   102
% identity
                   100
NCBI Description
                   (AJ132399) alpha-tubulin 3 [Hordeum vulgare]
                   141429
Seq. No.
Seq. ID
                   LIB25-108-Q1-E1-F4
Method
                   BLASTN
                   g2924651
NCBI GI
                   350
BLAST score
                   0.0e + 00
E value
                   361
Match length
                   99
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K2A18, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141430
                   LIB25-108-Q1-E1-G11
Seq. ID
Method
                   BLASTX
                   g2832674
NCBI GI
                   486
BLAST score
                   5.0e-49
E value
                   132
Match length
                   77
% identity
                   (AL021712) fibrillin precursor-like protein [Arabidopsis
NCBI Description
                   thaliana]
                   141431
Seq. No.
Seq. ID
                   LIB25-108-Q1-E1-G8
Method
                   BLASTN
                   g3492855
NCBI GI
                   130
BLAST score
                   5.0e-67
E value
                   178
Match length
                   100
% identity
                   Genomic sequence for Arabidopsis thaliana BAC F20N2,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   141432
Seq. No.
Seq. ID
                   LIB25-109-Q1-E1-A12
                   BLASTN
Method
NCBI GI
                   g2264309
BLAST score
                   108
                   4.0e-54
E value
Match length
                   164
                   91
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MJJ3, complete sequence [Arabidopsis thaliana]
                   141433
Seq. No.
Seq. ID
                   LIB25-109-Q1-E1-B10
Method
                   BLASTN
```

g2264307

NCBI GI

BLAST score

```
BLAST score
                  1.0e-129
E value
                  258
Match length
                  98
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MED24, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141434
                  LIB25-109-Q1-E1-B7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1173045
BLAST score
                  472
E value
                  1.0e-47
Match length
                  92
                  100
% identity
                  60S RIBOSOMAL PROTEIN L37A >gi_421866_pir__S34661 ribosomal
NCBI Description
                  protein L37a - turnip >gi_347062 (L21897) ribosomal protein
                  [Brassica rapa] >gi_395077_emb_CAA80864_ (Z24739) ribosomal
                  protein L37a [Brassica rapa]
                  141435
Seq. No.
Seq. ID
                  LIB25-109-Q1-E1-C2
Method
                  BLASTN
NCBI GI
                  g3299824
                  128
BLAST score
                  9.0e-66
E value
                  317
Match length
                  100
% identity
                  Arabidopsis thaliana BAC F4C21 from chromosome IV, top arm,
NCBI Description
                  near 17 cM, complete sequence [Arabidopsis thaliana]
                  141436
Seq. No.
                  LIB25-109-Q1-E1-D3
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4468801
                  90
BLAST score
                  2.0e-43
E value
Match length
                  118
                  92
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F6G17
NCBI Description
                  (ESSA project)
                  141437
Seq. No.
                  LIB25-109-Q1-E1-E6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4741952
                  500
BLAST score
                  7.0e-51
E value
                  94
Match length
                  100
% identity
                  (AF134126) Lhcb3 protein [Arabidopsis thaliana]
NCBI Description
                  141438
Seq. No.
                  LIB25-109-Q1-E1-E8
Seq. ID
                  BLASTN
Method
```

g2252823 311

```
E value
                  1.0e-175
Match length
                  311
% identity
                  100
NCBI Description
                  Arabidopsis thaliana BAC IG005I10
Seq. No.
                  141439
Seq. ID
                  LIB25-109-Q1-E1-F8
Method
                  BLASTN
NCBI GI
                  q3128135
BLAST score
                  79
E value
                  7.0e-37
Match length
                  119
                   92
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K19E1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141440
                  LIB25-109-Q1-E1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2499811
                  200
BLAST score
E value
                  1.0e-15
Match length
                  37
                  97
% identity
                  PROFILIN 2 >qi 1353766 (U43323) profilin 2 [Arabidopsis
NCBI Description
                  thaliana] >gi 1353772 (U43326) profilin 2 [Arabidopsis
                  thaliana]
                  141441
Seq. No.
Seq. ID
                  LIB25-110-Q1-E1-A8
Method
                  BLASTX
NCBI GI
                  g3250695
BLAST score
                  184
E value
                  1.0e-13
Match length
                  76
                  49
% identity
NCBI Description (AL024486) putative protein [Arabidopsis thaliana]
Seq. No.
                  141442
Seq. ID
                  LIB25-110-Q1-E1-B11
Method
                  BLASTN
NCBI GI
                  g2264318
BLAST score
                  409
E value
                  0.0e+00
Match length
                  412
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUP24, complete sequence [Arabidopsis thaliana]
                  141443
Seq. No.
Seq. ID
                  LIB25-110-Q1-E1-B2
                  BLASTX
Method
NCBI GI
                  g4512663
BLAST score
                  638
E value
                  5.0e-67
Match length
                  119
% identity
                  39
```

```
NCBI Description (AC006931) hypothetical protein [Arabidopsis thaliana]
                  >qi 4544470 gb AAD22377.1 AC006580 9 (AC006580)
                  hypothetical protein [Arabidopsis thaliana]
Seq. No.
                  141444
                  LIB25-110-Q1-E1-B7
Seq. ID
Method
                  BLASTN
                  q4309683
NCBI GI
BLAST score
                  352
E value
                  0.0e + 00
Match length
                  352
% identity
                  100
NCBI Description
                  Arabidopsis thaliana chromosome 1 BAC T31J12 sequence,
                  complete sequence [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB25-110-Q1-E1-C10
Method
                  BLASTX
                  q4559358
NCBI GI
                  150
BLAST score
E value
                  1.0e-09
Match length
                  50
% identity
                  (AC006585) putative steroid binding protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  141446
                  LIB25-110-Q1-E1-C2
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2351062
                  105
BLAST score
                  2.0e-52
E value
Match length
                  139
% identity
                  92
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MAH20, complete sequence [Arabidopsis thaliana]
                  141447
Seq. No.
                  LIB25-110-Q1-E1-C9
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4455262
BLAST score
                  293
E value
                  1.0e-164
Match length
                  361
% identity
                  94
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F17L22
NCBI Description
                  (ESSAII project)
Seq. No.
                  141448
                  LIB25-110-Q1-E1-E9
Seq. ID
Method
                 BLASTN
NCBI GI
                  q166787
BLAST score
                  121
E value
                  9.0e-62
Match length
                  170
% identity
                  100
NCBI Description A.thaliana chloroplast ATP synthase gamma subunit (atpC2)
```

```
gene, complete cds
 Seq. No.
                   141449
 Seq. ID
                   LIB25-110-Q1-E1-F5
Method
                   BLASTN
NCBI GI
                   q4063737
BLAST score
                   345
E value
                   0.0e+00
Match length
                   345
 % identity
                   100
NCBI Description
                   Arabidopsis thaliana chromosome II BAC F24D13 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                   141450
                   LIB25-110-Q1-E1-H2
 Seq. ID
Method
                   BLASTN
NCBI GI
                   g3451055
BLAST score
                   331
                   0.0e+00
E value
Match length
                   376
% identity
                   57
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F16G20
                   (ESSAII project)
Seq. No.
                   141451
Seq. ID
                   LIB25-111-Q1-E1-A12
Method
                   BLASTX
NCBI GI
                   g4567289
BLAST score
                   219
E value
                   6.0e-18
Match length
                   75
% identity
                   57
                   (AC006841) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   141452
Seq. No.
Seq. ID
                   LIB25-111-Q1-E1-A2
Method
                   BLASTN
NCBI GI
                   g4220628
BLAST score
                   373
E value
                   0.0e+00
Match length
                   389
% identity
                   77
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K24C1, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141453
Seq. ID
                   LIB25-111-Q1-E1-B6
Method
                   BLASTN
NCBI GI
                   g3242970
BLAST score
                   282
E value
                   1.0e-157
Match length
                   362
% identity
                   98
                   Arabidopsis thaliana BAC T4I9, chromosome IV, near 17 cM,
NCBI Description
```

141454

complete sequence [Arabidopsis thaliana]

```
LIB25-111-Q1-E1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2499610
                  450
BLAST score
E value
                  7.0e-45
Match length
                  100
                  88
% identity
                  MITOGEN-ACTIVATED PROTEIN KINASE HOMOLOG 6 (MAP KINASE 6)
NCBI Description
                  (ATMPK6) >gi 629547 pir S40472 mitogen-activated protein
                  kinase 6 (EC 2.7.1.-) - Arabidopsis thaliana
                  >qi 457404 dbj BAA04869 (D21842) MAP kinase [Arabidopsis
                  thaliana] >gi 2281091 (AC002333) MAP Kinase 6 [Arabidopsis
                  thaliana]
                  141455
Seq. No.
Seq. ID
                  LIB25-111-Q1-E1-C9
Method
                  BLASTN
NCBI GI
                  g166589
BLAST score
                  386
                  0.0e + 00
E value
                  386
Match length
                  100
% identity
                  Arabidopsis thaliana transcription factor (AGL2) mRNA,
NCBI Description
                  complete cds
                              •
                  141456
Seq. No.
Seq. ID
                  LIB25-111-Q1-E1-D2
                  BLASTX
Method
NCBI GI
                  g1071912
                  568
BLAST score
                  1.0e-58
E value
                  127
Match length
% identity
                  90
                  cysteine synthase (EC 4.2.99.8) cpACS1 - Arabidopsis
NCBI Description
                  thaliana >gi_572517_emb_CAA57344_ (X81698) cysteine
                  synthase [Arabidopsis thaliana]
                  141457
Seq. No.
Seq. ID
                  LIB25-111-Q1-E1-D4
Method
                  BLASTN
NCBI GI
                  g2351066
                  271
BLAST score
                  1.0e-151
E value
                  413
Match length
                  98
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MOP9, complete sequence [Arabidopsis thaliana]
                  141458
Seq. No.
Seq. ID
                  LIB25-111-Q1-E1-D5
Method
                  BLASTX
NCBI GI
                  g2924521
                  513
BLAST score
                  3.0e-52
E value
                  109
Match length
% identity
                 (AL022023) putative protein [Arabidopsis thaliana]
NCBI Description
```

```
141459
Seq. No.
Seq. ID
                   LIB25-111-Q1-E1-D6
Method
                   BLASTX
NCBI GI
                   g2829899
BLAST score
                   374
E value
                   6.0e-36
                   107
Match length
                   65
% identity
                   (AC002311) similar to ripening-induced protein,
NCBI Description
                   gp_AJ001449_2465015 and major#latex protein,
                   gp_X91961_1107495 [Arabidopsis thaliana]
                   141460
Seq. No.
Seq. ID
                   LIB25-111-Q1-E1-E7
                   BLASTN
Method
                   g1877523
NCBI GI
BLAST score
                   211
                   1.0e-115
E value
Match length
                   390
                   98
% identity
                  Arabidopsis thaliana BAC T7I23, complete sequence
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   141461
                   LIB25-111-Q1-E1-F10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3461821
                   596
BLAST score
                   5.0e-62
E value
                   118
Match length
                   99
% identity
                   (AC004138) putative nucleoside triphosphatase [Arabidopsis
NCBI Description
                   thaliana]
                   141462
Seq. No.
                   LIB25-111-Q1-E1-F3
Seq. ID
Method
                   BLASTN
                   q3805839
NCBI GI
BLAST score
                   167.
                   6.0e-89
E value
                   391
Match length
                   100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F4B14
NCBI Description
                   (ESSAII project)
Seq. No.
                   141463
Seq. ID
                   LIB25-111-Q1-E1-F5
Method
                   BLASTN
NCBI GI
                   g2351071
                  291
BLAST score
                   1.0e-163
E value
                   320
Match length
                   100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
```

MVA3, complete sequence [Arabidopsis thaliana]

Seq. ID

141469

LIB25-112-Q1-E1-A8

```
141464
 Seq. No.
                   LIB25-111-Q1-E1-F6
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g4033469
 BLAST score
                   399
                   7.0e-39
 E value
                   75
 Match length
 % identity
                   58
                   ARGININE/SERINE-RICH SPLICING FACTOR RSP41
 NCBI Description
                   >gi 1707370 emb CAA67799 (X99436) splicing factor
                   [Arabidopsis thaliana]
 Seq. No.
                   141465
 Seq. ID
                   LIB25-111-Q1-E1-F8
 Method
                   BLASTX
 NCBI GI
                   g2344896
 BLAST score
                   135
                   6.0e-08
 E value
                   134
Match length
                   7
 % identity
                   (AC002388) hypothetical protein [Arabidopsis thaliana]
NCBI Description
 Seq. No.
                   141466
                   LIB25-111-Q1-E1-H4
 Seq. ID
Method
                   BLASTN
NCBI GI
                   g3128137
BLAST score
                   220
E value
                   1.0e-121
Match length
                   244
 % identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                   K9I9, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141467
 Seq. ID
                   LIB25-111-Q1-E1-H7
Method
                   BLASTN
NCBI GI
                   g2632104
BLAST score
                   130
E value
                   2.0e-67
Match length
                   130
% identity
                   100
NCBI Description
                   Arabidopsis thaliana gene encoding arginyl-tRNA synthetase,
                   clone G7
Seq. No.
                   141468
Seq. ID
                   LIB25-112-Q1-E1-A2
Method
                   BLASTN
NCBI GI
                   g3860243
BLAST score
                   402
E value
                   0.0e + 00
Match length
                   402
                   100
% identity
                   Arabidopsis thaliana chromosome II BAC F15K20 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
```

```
BLASTX
Method
NCBI GI
                    g4581146
                    607
BLAST score
                    3.0e-63
E value
Match length
                   · 121
% identity
NCBI Description
                    (AC006919) putative fructose-bisphosphate aldolase,
                    cytoplasmic [Arabidopsis thaliana]
                    141470
Seq. No.
Seq. ID
                    LIB25-112-Q1-E1-B12
                    BLASTN
Method
NCBI GI
                    q2062153
BLAST score
                    128
                    8.0e-66
E value
                    128
Match length
                    100
% identity
                    Arabidopsis thaliana chromosome III BAC T02004 genomic
NCBI Description
                    sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                    141471
Seq. ID
                    LIB25-112-Q1-E1-B5
Method
                    BLASTN
NCBI GI
                    g2494106
BLAST score
                    205
E value
                    1.0e-112
                    205
Match length
% identity
                    100
                    Arabidopsis thaliana chromosome 1 YAC YUP8H12R sequence,
NCBI Description
                    complete sequence [Arabidopsis thaliana]
Seq. No.
Seq. ID
                    LIB25-112-Q1-E1-C2
Method
                    BLASTX
NCBI GI
                    q4191774
BLAST score
                    255
E value
                    6.0e-22
Match length
                    96
% identity
                    (AC005917) putative beta-1,3-endoglucanase [Arabidopsis
NCBI Description
                    thaliana]
Seq. No.
                    141473
                    LIB25-112-Q1-E1-C6
Seq. ID
Method
                    BLASTX
NCBI GI
                    g4506717
BLAST score
                    224
E value
                    2.0e-18
Match length
                    54
% identity
                    ribosomal protein S29 >gi_266972_sp_P30054 RS29 HUMAN 40S
NCBI Description
                    RIBOSOMAL PROTEIN S29 >gi 631884 pir_S30298 ribosomal
                    protein S29 - rat >gi_1362934_pir__ S55919 ribosomal protein S29 - human >gi_57133_emb_CAA41778_ (X59051) ribosomal protein S29 [Rattus norvegicus] >gi_550027 (U14973)
                    ribosomal protein S29 [Homo sapiens] >gi 1220361 (L31610)
                    homologous to antisense sequence of krev-1, anti oncogene
```

```
[Bos taurus] >gi_1096945_prf__2113200H ribosomal protein
                  S29 [Homo sapiens]
Seq. No.
                  141474
Seq. ID
                  LIB25-112-Q1-E1-C8
Method
                  BLASTX
NCBI GI
                  q4510399
BLAST score
                  377
E value
                  3.0e-36
Match length
                  65
% identity
                  (AC006587) putative zinc finger protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  141475
Seq. ID.
                  LIB25-112-Q1-E1-D11
Method
                  BLASTN
NCBI GI
                  g4191760
BLAST score
                  262
E value
                  1.0e-145
Match length
                  408
                  100
% identity
                  Genomic sequence for Arabidopsis thaliana BAC F17F8,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  141476
Seq. ID
                  LIB25-112-Q1-E1-D4
Method
                  BLASTX
NCBI GI
                  g119143
BLAST score
                  168
E value
                  8.0e-12
Match length
                  34
                  97
% identity
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
NCBI Description
                  >qi 81606 pir S06724 translation elongation factor eEF-1
                  alpha chain - Arabidopsis thaliana >gi 295788 emb CAA34453
                  (X16430) elongation factor 1-alpha [Arabidopsis thaliana]
                  >gi 1369927 emb CAA34454 (X16431) elongation factor
                  1-alpha [Arabidopsis thaliana] >gi_1369928_emb_CAA34455
                  (X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                  >gi_1532172 (U63815) EF-lalpha-A1 [Arabidopsis thaliana]
                  >gi_1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                  >gi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
                  141477
Seq. No.
Seq. ID
                  LIB25-112-Q1-E1-D6
Method
                  BLASTX
NCBI GI
                  q4826682
BLAST score
                  301
                  2.0e-27
E value
Match length
                  121
% identity
                  49
NCBI Description
                  cystinosis, nephropathic >gi_3036840_emb_CAA11021_
                  (AJ222967) cystinosin [Homo sapiens]
```

[Homo sapiens] >gi\_1220418 (L31609) S29 ribosomal protein [Mus musculus] >gi\_1513230 (U66372) ribosomal protein S29

>gi\_3036851\_emb\_CAA75882\_ (Y15924) cystinosin [Homo

141483

```
sapiens]
                  141478
Seq. No.
Seq. ID
                  LIB25-112-Q1-E1-E11
Method
                  BLASTX
NCBI GI
                  q4262235
BLAST score
                  413
                  2.0e-40
E value
                  105
Match length
                  77
% identity
                   (AC006200) putative transcription factor [Arabidopsis
NCBI Description
                  thaliana]
                  141479
Seq. No.
Seq. ID
                  LIB25-112-Q1-E1-E2
Method
                  BLASTX
NCBI GI
                  g2341034
BLAST score
                  206
E value
                  2.0e-16
Match length
                  40
                  100
% identity
                  (AC000104) F19P19.13 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141480
Seq. ID
                  LIB25-112-Q1-E1-F10
Method
                  BLASTN
NCBI GI
                  q3927822
BLAST score
                  321
E value
                  0.0e+00
Match length
                  428
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F8N16 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141481
Seq. ID
                  LIB25-112-Q1-E1-F7
Method
                  BLASTN
NCBI GI
                  q3021263
BLAST score
                  223
                  1.0e-122
E value
Match length
                  434
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F21P8
NCBI Description
                   (ESSAII project)
Seq. No.
                  141482
Seq. ID
                  LIB25-112-Q1-E1-F8
Method
                  BLASTX
NCBI GI
                  q2252840
BLAST score
                  565
E value
                  3.0e-58
Match length
                  143
% identity
                  85
                   (AF013293) contains regions of similarity to Haemophilus
NCBI Description
                  influenzae permease (SP:P38767) [Arabidopsis thaliana]
```

141488

```
Seq. ID
                    LIB25-112-Q1-E1-H8
  Method
                    BLASTX
  NCBI GI
                    g3522935
  BLAST score
                    550
  E value
                    1.0e-56
 Match length
                    127
  % identity
 NCBI Description
                    (AC004411) putative alcohol dehydrogenase [Arabidopsis
                    thaliana]
 Seq. No.
                    141484
 Seq. ID
                    LIB25-113-Q1-E1-A1
 Method
                    BLASTX
 NCBI GI
                    g2795809
 BLAST score
                    531
 E value
                    3.0e-54
 Match length
                    101
 % identity
                    97
 NCBI Description
                   (AC003674) putative expansin [Arabidopsis thaliana]
 Seq. No.
                   141485
 Seq. ID
                   LIB25-113-Q1-E1-B6
 Method
                   BLASTX
 NCBI GI
                   g2924779
 BLAST score
                   662
 E value
                   1.0e-69
 Match length
                   139
 % identity
                   94
 NCBI Description
                   (AC002334) putative 3-ketoacyl-CoA thiolase [Arabidopsis
                   thaliana] >gi_2981616_dbj_BAA25248_ (AB008854)
                   3-ketoacyl-CoA thiolase [Arabidopsis thaliana]
                   >gi_2981618_dbj_BAA25249_ (AB008855) 3-ketoacyl-CoA
                   thiolase [Arabidopsis thaliana]
Seq. No.
                   141486
Seq. ID
                   LIB25-113-Q1-E1-B7
Method
                   BLASTX
NCBI GI
                   g2827714
BLAST score
                   163
E value
                   4.0e-11
Match length
                   142
% identity
                   5
NCBI Description
                  (AL021684) receptor protein kinase - like protein
                   [Arabidopsis thaliana]
Seq. No.
                  141487
Seq. ID
                  LIB25-113-Q1-E1-C12
Method
                  BLASTN
NCBI GI
                  g4589450
BLAST score
                  279
E value
                  1.0e-156
Match length
                  304
% identity
                  97
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  T31K7, complete sequence
```

Method

BLASTX

```
Seq. ID
                    LIB25-113-Q1-E1-C5
 Method
                    BLASTN
 NCBI GI
                    q3402695
 BLAST score
                    59 ..
 E value
                    2.0e-24
 Match length
                    115
 % identity
                    88
 NCBI Description
                    Arabidopsis thaliana chromosome II BAC T3K9 genomic
                    sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    141489
 Seq. ID
                    LIB25-113-Q1-E1-C7
 Method
                    BLASTN
 NCBI GI
                    q3869069
 BLAST score
                    51
 E value
                    1.0e-19
 Match length
                   79
 % identity
                   91
 NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                   MEB5, complete sequence [Arabidopsis thaliana]
 Seq. No.
                   141490
 Seq. ID
                   LIB25-113-Q1-E1-C8
Method
                   BLASTX
NCBI GI
                   g3687243
BLAST score
                   261
E value
                   1.0e-22
Match length
                   64
% identity
                   80
NCBI Description
                   (AC005169) putative ribosomal protein [Arabidopsis
                   thaliana]
Seq. No.
                   141491
Seq. ID
                   LIB25-113-Q1-E1-D5
Method
                   BLASTX
NCBI GI
                   g3600039
BLAST score
                   211
                   8.0e-17
E value
Match length
                   60
% identity
                   63
NCBI Description
                   (AF080119) similar to Schizosaccharomyces pombe isp4
                   protein (GB:D14061) [Arabidopsis thaliana]
Seq. No.
                   141492
Seq. ID
                   LIB25-113-Q1-E1-D7
Method
                   BLASTN
NCBI GI
                   q4757407
BLAST score
                   242
E value
                   1.0e-133
Match length
                   438
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MQD19, complete sequence
Seq. No. Seq. ID
                  141493
                  LIB25-113-Q1-E1-E1
```

```
NCBI GI
                   g2351846
BLAST score
                  254
E value
                   7.0é-22
                   95
Match length
% identity
                  (U93050) poly(A) binding protein II [Mus musculus]
NCBI Description
                  141494
Seq. No.
Seq. ID
                  LIB25-113-Q1-E1-E7
                  BLASTX
Method
NCBI GI
                  q4678946
BLAST score
                   544
                   8.0e-56
E value
                  108
Match length
                   98
% identity
                   (AL049711) putative protein [Arabidopsis thaliana]
NCBI Description
                   141495
Seq. No.
                                                                   Vi.
                  LIB25-113-Q1-E1-F1
Seq. ID
Method
                  BLASTN
NCBI GI
                  q16151
BLAST score
                  119
E value
                   1.0e-60
Match length
                  119
% identity
                   100
NCBI Description Arabidopsis thaliana gene for acyl carrier protein
Seq. No.
                   141496
                  LIB25-113-Q1-E1-F12
Seq. ID
Method
                  BLASTN
NCBI GI
                   g2244901
BLAST score
                  178
E value
                   1.0e-95
Match length
                  329
% identity
                   99
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                   fragment No
                   141497
Seq. No.
Seq. ID
                  LIB25-113-Q1-E1-G1
Method
                  BLASTX
NCBI GI
                  g3983125
BLAST score
                  640
E value
                   4.0e-67
Match length
                  146
% identity
NCBI Description
                   (AF097648) phosphate/triose-phosphate translocator
                  precursor [Arabidopsis thaliana]
Seq. No.
                   141498
                  LIB25-113-Q1-E1-G7
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4589424
BLAST score
                  93
E value
                  1.0e-44
Match length
                  175
% identity
                  89
```

Seq. ID

```
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                   K8E10, complete sequence
                   141499
Seq. No.
Seq. ID
                   LIB25-113-Q1-E1-H1
Method
                   BLASTX
NCBI GI
                   g3522958
BLAST score
                   744
E value
                   3.0e-79
Match length
                   147
% identity
                   99
                   (AC004411) putative pectinesterase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   141500
                   LIB25-113-Q1-E1-H3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g198884
BLAST score
                   153
                   5.0e-10
E value
Match length
                   119
% identity
                   35
                   (M63848) leukotriene A-4 hydrolase [Mus musculus]
NCBI Description
                   141501
Seq. No.
                   LIB25-114-Q1-E1-C6
Seq. ID
Method
                   BLASTX
NCBI GI
                   q4539307
BLAST score
                   379
                   1.0e-36
E value
Match length
                   105
% identity
                   (ALO49480) putative acidic ribosomal protein [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   141502
Seq. ID
                   LIB25-114-Q1-E1-D8
Method
                   BLASTX
NCBI GI
                   g3297821
BLAST score
                   472
                   2.0e-47
E value
Match length
                   134
% identity
                   27
                  (AL031032) extensin-like protein [Arabidopsis thaliana]
NCBI Description
                   141503
Seq. No.
Seq. ID
                   LIB25-114-Q1-E1-F6
Method
                   BLASTX
NCBI GI
                   g4262149
BLAST score
                   474
                   8.0e-48
E value
Match length
                   92
% identity
                   100
                   (AC005275) putative xyloglucan endotransglycosylase
NCBI Description
                   [Arabidopsis thaliana]
                   141504
Seq. No.
```

LIB25-114-Q1-E1-G11

141509

• ;

```
BLASTN
Method
NCBI GI
                  q2760167
BLAST score
                  336
                  0.0e + 00
E value
Match length
                  366
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MCO15, complete sequence [Arabidopsis thaliana]
                  141505
Seq. No.
Seq. ID
                  LIB25-115-Q1-E1-A4
Method
                  BLASTX
                  g115767
NCBI GI
BLAST score
                  563
                  3.0e-58
E value
Match length
                  107
% identity
                  100
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                  (CAB-165/180) (LHCP) >gi 81603 pir A29280 chlorophyll
                  a/b-binding protein ab165 - Arabidopsis thaliana
                  >qi 16368 emb CAA27540 (X03907) chlorophyll a/b binding
                  protein (LHCP AB 65) [Arabidopsis thaliana]
                  >qi 16372 emb CAA27541 (X03908) chlorophyll a/b binding
                  protein (LHCP AB 180) [Arabidopsis thaliana]
                  141506
Seq. No.
Seq. ID
                  LIB25-115-Q1-E1-A9
                  BLASTX
Method
NCBI GI
                  q4115381
BLAST score
                  609
                  2.0e-63
E value
Match length
                  116
% identity
                  (AC005967) putative limonene cyclase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141507
                  LIB25-115-Q1-E1-C10
Seq. ID
Method
                  BLASTX
                  g4768978
NCBI GI
BLAST score
                  249
                  3.0e-21
E value
Match length
                  122
% identity
NCBI Description
                  (AF140489) kiaa0078 protein [Oryza sativa]
                  141508
Seq. No.
                  LIB25-115-Q1-E1-C8
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4757407
BLAST score
                  381
                  0.0e+00
E value
                  381
Match length
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MQD19, complete sequence
```

Method

BLASTN

```
LIB25-115-Q1-E1-D4
Seq. ID
Method
                  BLASTX
                  g4510400
NCBI GI
BLAST score
                  291
                  2.0e-26
E value
Match length
% identity
NCBI Description
                   (AC006587) putative vacuolar-type H(+)-ATPase [Arabidopsis
                  thaliana]
                  141510
Seq. No.
                  LIB25-115-Q1-E1-G3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2829899
BLAST score
                  224
                  2.0e-18
E value
Match length
                  62
                  65
% identity
                   (AC002311) similar to ripening-induced protein,
NCBI Description
                  gp AJ001449 2465015 and major#latex protein,
                  gp X91961 1107495 [Arabidopsis thaliana]
Seq. No.
                  141511
Seq. ID
                  LIB25-115-Q1-E1-H10
Method
                  BLASTX
NCBI GI
                  g1762130
BLAST score
                  152
E value
                  5.0e-10
Match length
                  49
% identity
                  69
NCBI Description
                  (U46136) chaperonin-60 beta subunit [Solanum tuberosum]
Seq. No.
                  141512
                  LIB25-115-Q1-E1-H2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1531758
BLAST score
                  285
                  7.0e-26
E value
Match length
                  79
% identity
                  (X98772) AUX1 [Arabidopsis thaliana] >qi 3335360 (AC003028)
NCBI Description
                  unknown protein [Arabidopsis thaliana]
Seq. No.
                  141513
                  LIB25-115-Q1-E1-H9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3201608
BLAST score
                  217
                  1.0e-119
E value
Match length
                  217
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F7F1 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141514
                  LIB25-116-Q1-E1-A3
Seq. ID
```

NCBI GI

```
g456613
NCBI GI
BLAST score
                  247
E value
                  1.0e-137
Match length
                  251
                  100
% identity
NCBI Description A.thaliana mRNA for mevalonate kinase
                  141515
Seq. No.
                  LIB25-116-Q1-E1-B1
Seq. ID
Method
                  BLASTX
                  g3688799
NCBI GI
                  250
BLAST score
                  5.0e-22
E value
Match length
                  50
% identity
                  100
                   (AF057137) gamma tonoplast intrinsic protein 2 [Arabidopsis
NCBI Description
                  thaliana]
                  141516
Seq. No.
                  LIB25-116-Q1-E1-B3
Seq. ID
Method
                  BLASTX
                  g4220450
NCBI GI
BLAST score
                  231
                  2.0e-19
E value
                  103
Match length
% identity
                  13
                  (AC006216) Identical to gb_D85194 mRNA which is similar to
NCBI Description
                  gb AF054906 myrosinase-binding protein homolog from
                  Arabidopsis thaliana. ESTs gb Z34045 and gb Z34877 come
                  from this gene. [Arabidopsis thaliana]
Seq. No.
                  141517
Seq. ID
                  LIB25-116-Q1-E1-E6
Method
                  BLASTN
                  g3413696
NCBI GI
BLAST score
                  313
E value
                  1.0e-176
                  313
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC T19L18 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141518
                  LIB25-116-Q1-E1-F7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3869066
BLAST score
                  214
                  1.0e-117
E value
                  214
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MBM17, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141519
                  LIB25-116-Q1-E1-F9
Seq. ID
Method
                  BLASTN
```

q3449320

Method

BLASTX

```
280
BLAST score
E value
                  1.0e-156
Match length
                  317
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MRB17, complete sequence [Arabidopsis thaliana]
                  141520
Seq. No.
                  LIB25-117-Q1-E1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g132939
BLAST score
                  611
                  9.0e-64
E value
                  123
Match length
% identity
                  93
                  60S RIBOSOMAL PROTEIN L3 >gi 81657 pir JQ0771 ribosomal
NCBI Description
                  protein L3 (ARP1) - Arabidopsis thaliana >qi 166858
                  (M32654) ribosomal protein [Arabidopsis thaliana]
Seq. No.
                  141521
Seq. ID
                  LIB25-117-Q1-E1-C1
Method
                  BLASTN
NCBI GI
                  g4544381
BLAST score
                  339
E value
                  0.0e+00
                                                     ¥.
Match length
                  366
% identity
                  98
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F16F14 genomic
                  sequence, complete sequence
Seq. No.
                  141522
Seq. ID
                  LIB25-117-Q1-E1-E7
Method
                  BLASTX
NCBI GI
                  q2995949
BLAST score
                  228
E value
                  3.0e-19
Match length
                  45
% identity
NCBI Description
                  (AF053563) ubiquitin [Mesembryanthemum crystallinum]
Seq. No.
                  141523
                  LIB3168-001-P1-K1-A1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  673
E value
                  6.0e-71
Match length
                  154
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir_S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141524
                  LIB3168-001-P1-K1-A10
Seq. ID
```

Match length

128

```
g1628583
NCBI GI
BLAST score
                  78
                  3.8e-01
E value
Match length
                  74
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141525
Seq. ID
                  LIB3168-001-P1-K1-A11
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  371
                  5.0e-37
E value
Match length
                  97
% identity
                  82
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  141526
Seq. No.
                  LIB3168-001-P1-K1-A12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  852
                  7.0e-92
E value
Match length
                  165
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141527
                  LIB3168-001-P1-K1-A2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3915961
BLAST score
                  635
E value
                  2.0e-66
Match length
                  157
% identity
                  82
NCBI Description
                  HYPOTHETICAL 267 KD PROTEIN (ORF 2280)
                  >gi_2924274_emb_CAA77427_ (Z00044) Ycf2 protein [Nicotiana
                  tabacum] >gi_2924285_emb_CAA77438_ (Z00044) hypothetical
                  protein [Nicotiana tabacum]
Seq. No.
                  141528
Seq. ID
                  LIB3168-001-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  g1903034
BLAST score
                  285
E value
                  2.0e-25
```

```
% identity
                  44
NCBI Description
                  (X94625) amp-binding protein [Brassica napus]
                  141529
Seq. No.
Seq. ID
                  LIB3168-001-P1-K1-A6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  674
                  4.0e-81
E value
Match length
                  155
                  96
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141530
Seq. ID
                  LIB3168-001-P1-K1-A8
Method
                  BLASTN
NCBI GI
                  g2564048
BLAST score
                  168
                  2.0e-89
E value
Match length
                  276
                  94
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MKD15, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141531
                  LIB3168-001-P1-K1-A9
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  642
                  3.0e-67
E value
Match length
                  123
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141532
Seq. ID
                  LIB3168-001-P1-K1-B1
Method
                  BLASTX
                  g1171577
NCBI GI
BLAST score
                  195
                  8.0e-15
E value
Match length
                  108
% identity
                  40
                  (X95343) hypersensitivity-related gene [Nicotiana tabacum]
NCBI Description
Seq. No.
                  141533
                  LIB3168-001-P1-K1-B10
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  382
BLAST score
E value
                  9.0e-37
Match length
                  96
                  79
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

E value

4.0e-45

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

141534 Seq. No. LIB3168-001-P1-K1-B11 Seq. ID Method BLASTX NCBI GI g112739 BLAST score 660 E value 3.0e-69 Match length 166 % identity 78 NCBI Description 2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -Arabidopsis thaliana >gi\_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi\_395205\_emb\_CAA80871\_ (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana] >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2 precursor [Arabidopsis thaliana] Seq. No. 141535 LIB3168-001-P1-K1-B12 Seq. ID Method BLASTX NCBI GI g112741 BLAST score 885 E value 1.0e-95 Match length 164 % identity 99 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana] Seq. No. 141536 LIB3168-001-P1-K1-B2 Seq. ID Method BLASTX NCBI GI g112741 BLAST score 800 E value 8.0e-86 Match length 150 99 % identity 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana] Seq. No. 141537 LIB3168-001-P1-K1-B3 Seq. ID Method BLASTX g2129659 NCBI GI BLAST score 453

Seq. ID

```
Match length
                  138
% identity
                  70
                  oleosin, isoform 21K - Arabidopsis thaliana >gi_725260
NCBI Description
                  (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                  141538
Seq. ID
                  LIB3168-001-P1-K1-B4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  500
E value
                  4.0e-64
Match length
                  155
% identity
                  82
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141539
Seq. No.
Seq. ID
                  LIB3168-001-P1-K1-B5
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  102
                  1.0e-45
E value
Match length
                  96
% identity
                  94
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141540
                  LIB3168-001-P1-K1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  45
E value
                  3.0e-68
Match length
                  163
                  83
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141541
                  LIB3168-001-P1-K1-B7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  637
E value
                  1.0e-66
Match length
                  157
% identity
                  81
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141542
Seq. No.
```

17273

LIB3168-001-P1-K1-B8

Seq. ID

Method

141546

BLASTX

LIB3168-001-P1-K1-C12

```
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  680
                  1.0e-71
E value
Match length
                  165
% identity
                  81
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141543
Seq. ID
                  LIB3168-001-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  584
E value
                  2.0e-60
Match length
                  140
% identity
                  81
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141544
                  LIB3168-001-P1-K1-C10
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  322
                  1.0e-32
E value
Match length
                  83
                  89
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141545
Seq. No.
                  LIB3168-001-P1-K1-C11
Seq. ID
Method
                  BLASTX
                  g112739
NCBI GI
BLAST score
                  369
E value
                  2.0e-67
Match length
                  145
% identity
                  89
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
```

NCBI Description

```
NCBI GI
                  g1628583
BLAST score
                  642
                  3.0e-67
E value
Match length
                  123
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141547
                  LIB3168-001-P1-K1-C2
Seq. ID
Method
                  BLASTX
                  g2129659
NCBI GI
BLAST score
                  496
E value
                  4.0e-50
Match length
                  143
% identity
                  73
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                  (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                  141548
                  LIB3168-001-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  633
E value
                  4.0e-66
                  170
Match length
% identity
                  76
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141549
Seq. No.
                  LIB3168-001-P1-K1-C4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  636
                  2.0e-66
E value
Match length
                  164
% identity
                  67
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141550
                  LIB3168-001-P1-K1-C5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  616
                  3.0e-64
E value
Match length
                  121
                  98
% identity
```

(U66916) 12S cruciferin seed storage protein [Arabidopsis

Seq. ID

Method

NCBI GI BLAST score

```
thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141551
                  LIB3168-001-P1-K1-C6
Seq. ID
                  BLASTX
Method
                  g2642159
NCBI GI
BLAST score
                  286
                  2.0e-59
E value
Match length
                  128
% identity
                  (AC003000) putative mannose-1-phosphate guanyltransferase
NCBI Description
                  [Arabidopsis thaliana] >gi_3598958 (AF076484) GDP-mannose
                  pyrophosphorylase [Arabidopsis thaliana] >gi 4151925
                  (AF108660) CYT1 protein [Arabidopsis thaliana]
Seq. No.
                  141552
                  LIB3168-001-P1-K1-C7
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141553
                  LIB3168-001-P1-K1-C8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  3.0e-65
E value
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141554
Seq. No.
                  LIB3168-001-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  624
                  4.0e-65
E value
                  119
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141555
```

LIB3168-001-P1-K1-D1

BLASTX

842

g1628583

```
1.0e-90
E value
Match length
                  171
% identity
                  97 ...
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141556
                  LIB3168-001-P1-K1-D10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  713
                  1.0e-75
E value
Match length
                  148
% identity
                  90
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi 166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi 395202 emb CAA80869
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141557
Seq. ID
                  LIB3168-001-P1-K1-D11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  359
                  6.0e-78
E value
Match length
                  160
% identity
                  94
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141558
                  LIB3168-001-P1-K1-D12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141559
                  LIB3168-001-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  212
                  3.0e-17
E value
Match length
                  42
% identity
                  100
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
```

cruciferin precursor (CRA1) - Arabidopsis thaliana

BLAST score

E value

712

1.0e-75

```
thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141560
Seq. ID
                  LIB3168-001-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  741
E value
                  7.0e-79
Match length
                  164
% identity
                  85
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141561
Seq. No.
Seq. ID
                  LIB3168-001-P1-K1-D4
Method
                  BLASTN
NCBI GI
                  q2842474
BLAST score
                  240
E value
                  1.0e-132
Match length
                  240
                  100
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                  (ESSAII project)
Seq. No.
                  141562
Seq. ID
                  LIB3168-001-P1-K1-D5
Method
                  BLASTX
NCBI GI
                  q4204299
BLAST score
                  510
E value
                  1.0e-54
Match length
                  136
% identity
                   (AC003027) 1cl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  141563
                  LIB3168-001-P1-K1-D6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g461841
BLAST score
                  312
E value
                  3.0e-51
Match length
                  151
% identity
                  CRUCIFERIN CRU4 PRECURSOR (11S GLOBULIN) (12S STORAGE
NCBI Description
                  PROTEIN)
                  141564
Seq. No.
Seq. ID
                  LIB3168-001-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  q112681
```

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis

```
Match length
                  139
                   96
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141565
Seq. ID
                  LIB3168-001-P1-K1-D9
Method
                  BLASTX
NĊBI GI
                  q1628583
BLAST score
                  901
E value
                  1.0e-97
                  174
Match length
% identity
                  99
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141566
                  LIB3168-001-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  610
                  2.0e-63
E value
Match length
                  157
% identity
                  76
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141567
Seq. ID
                  LIB3168-001-P1-K1-E10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141568
                  LIB3168-001-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  3.0e-67
Match length
                  123
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. ID Method

NCBI GI

```
141569
Seq. No.
Seq. ID
                  LIB3168-001-P1-K1-E2
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  603
E value
                  8.0e-63
Match length
                  115
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141570
Seq. ID
                  LIB3168-001-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  743
                              150
E value
                  5.0e-79
Match length
                  178
% identity
                  83
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141571
Seq. ID
                  LIB3168-001-P1-K1-E4
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  648
E value
                  4.0e-70
Match length
                  163
% identity
                  83
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141572
Seq. ID
                  LIB3168-001-P1-K1-E5
Method
                  BLASTX
NCBI GI
                  g2492515
BLAST score
                  366
E value
                  7.0e-35
Match length
                  87
% identity
                  CELL DIVISION PROTEIN FTSH HOMOLOG PRECURSOR
NCBI Description
                  >gi_2129924_pir__S58298 ATPase - pepper (fragment)
                  >gi 929013 emb CAA62084 (X90472) ATPase [Capsicum annuum]
Seq. No.
                  141573
```

LIB3168-001-P1-K1-E6

BLASTX

q267136

```
BLAST score
                  476
E value.
                  1.0e-58
Match length
                  156
                  78
% identity
                  PLASMA MEMBRANE INTRINSIC PROTEIN 2C (WATER-STRESS INDUCED
NCBI Description
                  TONOPLAST INTRINSIC PROTEIN) (WSI-TIP)
                  >gi 217869 dbj BAA02520 (D13254) transmembrane channel
                  protein [Arabidopsis thaliana] >gi 4371283 gb AAD18141
                  (AC006260) putative plasma membrane intrinsic protein 2C
                  [Arabidopsis thaliana] >gi 384324_prf__1905411A
                  transmembrane channel [Arabidopsis thaliana]
Seq. No.
                  141574
Seq. ID
                  LIB3168-001-P1-K1-E7
Method
                  BLASTX
NCBI GI
                  q4204299
BLAST score
                  758
                  7.0e-81
E value
                  162
Match length
% identity
                  90
NCBI Description
                  (AC003027) lcl prt seq No definition line found
                  [Arabidopsis thaliana]
Seq. No.
                  141575
                  LIB3168-001-P1-K1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141576
Seq. ID
                  LIB3168-001-P1-K1-E9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  626
E value
                  2.0e-65
                  129
Match length
% identity
                  95
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141577
                  LIB3168-001-P1-K1-F1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  518
E value
                  4.0e-53
Match length
                  98
% identity
                  98
NCBI Description '12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
```

cruciferin precursor (CRB) - Arabidopsis thaliana

```
Seq. No.
                  141578
Seq. ID
                  LIB3168-001-P1-K1-F10
Method
                  BLASTX
NCBI GI
                  q1345973
BLAST score
                  408
                  7.0e-40
E value
Match length
                  123
                  75
% identity
                  OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                  >gi 541882 pir JQ2335 omega-3 fatty acid desaturase (EC
                  1.14.99.-) CF3 - Arabidopsis thaliana >gi 408483 (L22931)
                  omega-3 fatty acid desaturase [Arabidopsis thaliana]
                  >qi 471091 dbj BAA04505 (D17579) fatty acid desaturase
                  [Arabidopsis thaliana] >gi 1197795 dbj BAA05514 (D26508)
                  microsomal omega-3 fatty acid desaturase [Arabidopsis
                  thaliana] >qi 3420053 (AC004680) omega-3 fatty acid
                  desaturase [Arabidopsis thaliana]
Seq. No.
                  141579
                  LIB3168-001-P1-K1-F11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1345592
BLAST score
                  348
E value
                  9.0e-55
Match length
                  124
                  95
% identity
                  14-3-3-LIKE PROTEIN GF14 EPSILON >qi 1022778 (U36446) GF14
NCBI Description
                  epsilon isoform [Arabidopsis thaliana]
Seq. No.
                  141580
                  LIB3168-001-P1-K1-F12
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  536
                  9.0e-55
E value
Match length
                  101
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141581
                  LIB3168-001-P1-K1-F2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g133406
BLAST score
                  164
                  3.0e-11
E value
                  34
Match length
% identity
NCBI Description
                  DNA-DIRECTED RNA POLYMERASE ALPHA CHAIN
                  >qi 81501 pir C23525 DNA-directed RNA polymerase (EC
                  2.7.7.6) alpha chain - spinach chloroplast
                  >qi 12265 emb CAA27214 (X03496) pot. RNA polymerase alpha
```

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. ID

## subunit (aa 1-335) [Spinacia oleracea] Seq. No. 141582 LIB3168-001-P1-K1-F3 Seq. ID Method BLASTX g1628583 NCBI GI BLAST score 399 E value 1.0e-38 Match length 109 75 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 141583 LIB3168-001-P1-K1-F4 Seq. ID Method BLASTN NCBI GI g2264311 BLAST score 70 E value 7.0e-31 Match length 93 97 % identity NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MLN1, complete sequence [Arabidopsis thaliana] 141584 Seq. No. LIB3168-001-P1-K1-F5 Seq. ID Method BLASTX NCBI GI g112681 BLAST score 612 E value 9.0e-64 Match length 160 % identity 80 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 141585 Seq. ID LIB3168-001-P1-K1-F6 Method BLASTX NCBI GI q112741 BLAST score 865 2.0e-93 E value Match length 164 % identity 97 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi 395201\_emb\_CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

LIB3168-001-P1-K1-F7

141586



```
BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  67
E value
                  7.0e-31
Match length
                  135
% identity
                  59
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141587
                  LIB3168-001-P1-K1-F8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  594
E value
                  5.0e-62
Match length
                  123
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141588
                  LIB3168-001-P1-K1-F9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  3.0e-67
Match length
                  123
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141589
Seq. ID
                  LIB3168-001-P1-K1-G1
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  590
E value
                  3.0e-61
Match length
                  148
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141590
                  LIB3168-001-P1-K1-G10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
```

Method BLASTX
NCBI GI g112741
BLAST score 605
E value 6.0e-63
Match length 144
% identity 82

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

```
PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana]
```

141591 Seq. No. LIB3168-001-P1-K1-G11 Seq. ID Method BLASTX NCBI GI g1628583 BLAST score 343 3.0e-32 E value Match length 90 % identity 76

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 141592

Seq. ID LIB3168-001-P1-K1-G12

Method BLASTX
NCBI GI g112681
BLAST score 679
E value 1.0e-71
Match length 164
% identity 82

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis

thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 141593

Seq. ID LIB3168-001-P1-K1-G2

Method BLASTX
NCBI GI g3047098
BLAST score 161
E value 8.0e-11
Match length 90
% identity 42

NCBI Description (AF058826) similar to eukaryotic protein kinase domains

(Pfam: pkinase.hmm, score: 171.43) [Arabidopsis thaliana]

Seq. No. 141594

Seq. ID LIB3168-001-P1-K1-G3

Method BLASTX
NCBI GI g3281855
BLAST score 510
E value 1.0e-53
Match length 138
% identity 79

NCBI Description (AL031004) hypothetical protein [Arabidopsis thaliana]

Seq. No. 141595

Seq. ID LIB3168-001-P1-K1-G4

Method BLASTX

```
g1072480
NCBI GI
BLAST score
                  413
E value
                  4.0e-59
Match length
                  154
% identity
                  81
NCBI Description
                  cruciferin 1 precursor - rape
Seq. No.
                  141596
                  LIB3168-001-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI ·
                  g1628583
BLAST score
                  548
E value
                  3.0e-56
Match length
                  171
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141597
Seq. No.
                  LIB3168-001-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  3.0e-67
Match length
                  123
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141598
Seq. ID
                  LIB3168-001-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  879
                  5.0e-95
E value
Match length
                  164
                  99
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  141599
Seq. No.
Seq. ID
                  LIB3168-001-P1-K1-G9
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  630
                  1.0e-68
E value
Match length
                  160
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
```

cruciferin precursor (CRB) - Arabidopsis thaliana



>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed
storage protein [Arabidopsis thaliana]

 Seq. No.
 141600

 Seq. ID
 LIB3168-001-P1-K1-H10

 Method
 BLASTX

 NCBI GI
 q1628583

NCBI GI g1628583
BLAST score 181
E value 2.0e-13
Match length 90
% identity 50

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 141601

Seq. ID LIB3168-001-P1-K1-H11

Method BLASTX
NCBI GI g112681
BLAST score 785
E value 6.0e-84
Match length 174
% identity 87

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No.

Seq. ID LIB3168-001-P1-K1-H12

141602

Method BLASTX
NCBI GI g1628583
BLAST score 706
E value 1.0e-74
Match length 168
% identity 82

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 141603

Seq. ID LIB3168-001-P1-K1-H2

Method BLASTX
NCBI GI g112682
BLAST score 686
E value 2.0e-72
Match length 150
% identity 88

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi 808937 emb\_CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 141604

Match length

128

```
LIB3168-001-P1-K1-H3
Seq. ID
                  BLASTX
Method
                  g112737
NCBI GI ·
BLAST score
                . 250
                  3.0e-21
E value
Match length
                  86
% identity
                  63
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141605
                  LIB3168-001-P1-K1-H4
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  316
E value
                  2.0e-29
Match length
                  71
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141606
                  LIB3168-001-P1-K1-H5
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  338
                  2.0e-32
E value
Match length
                  65
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141607
                  LIB3168-001-P1-K1-H6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2651310
BLAST score
                  188
                  7.0e-49
E value
                  102
Match length
% identity
                  (AC002336) putative PTR2-B peptide transporter [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  141608
                  LIB3168-001-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  625
BLAST score
E value
                  3.0e-65
```

```
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141609
Seq. No.
Seq. ID
                  LIB3168-001-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   638
                  7.0e-67
E value
Match length
                  123
                   99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141610
Seq. No.
                  LIB3168-001-P1-K1-H9
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  496
BLAST score
                  1.0e-60
E value
                  121
Match length
                  100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141611
                  LIB3168-002-P1-K1-A1
Seq. ID
                  BLASTX
Method
                  g1170936
NCBI GI
                  209
BLAST score
                  9.0e-17
E value
Match length
                  68
% identity
                  S-ADENOSYLMETHIONINE SYNTHETASE 1 (METHIONINE
NCBI Description
                  ADENOSYLTRANSFERASE 1) (ADOMET SYNTHETASE 1)
                  >gi_1084406_pir__S46538 methionine adenosyltransferase (EC
                  2.5.1.6) - tomato >gi 429104 emb CAA80865 (Z24741)
                  S-adenosyl-L-methionine synthetase [Lycopersicon
                  esculentum]
Seq. No.
                  141612
                  LIB3168-002-P1-K1-A10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  357
E value
                  5.0e-34
Match length
                  109
% identity
                  68
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
```

(Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]

```
precursor [Arabidopsis thaliana]
                  141613
Seq. No.
                  LIB3168-002-P1-K1-A11
Seq. ID
Method
                  BLASTX
                  g112741
NCBI GI
BLAST score
                  705
                  1.0e-74
E value
Match length
                  131
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201_emb_CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  141614
Seq. No.
                  LIB3168-002-P1-K1-A12
Seq. ID
                  BLASTX
Method
                  q112681
NCBI GI
BLAST score
                  511
                  4.0e-52
E value
Match length
                  121
                  83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir_ S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141615
                  LIB3168-002-P1-K1-A2
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  514
E value
                  3.0e-52
Match length
                  109
                  90
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141616
                  LIB3168-002-P1-K1-A3
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
BLAST score
                  399
E value
                  5.0e-39
Match length
                  112
% identity
                  67
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
```

>gi 4490711\_emb\_CAB38845.1 (AL035680) NWMU2-2S albumin 2

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

Method

BLASTX

## storage protein [Arabidopsis thaliana]

```
Seq. No.
                  141617
                  LIB3168-002-P1-K1-A4
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  554
E value
                  4.0e-57
Match length
                  111
                  96
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141618
Seq. ID
                  LIB3168-002-P1-K1-A8
Method
                  BLASTX
NCBI GI
                  q112743
BLAST score
                  549
E value
                  2.0e-56
Match length
                  117
% identity
                  87
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68856 pir NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi 166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi 395202 emb CAA80869
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141619
                  LIB3168-002-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  620
E value
                  1.0e-64
Match length
                  119
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141620
                  LIB3168-002-P1-K1-B10
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  127
E value
                  4.0e-07
Match length
                  53
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141621
                  LIB3168-002-P1-K1-B11
Seq. ID
```

```
NCBI GI
                   q1628583
BLAST score
                   621
                   5.0e-65
E value
Match length
                   119
                   100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141622
                   LIB3168-002-P1-K1-B12
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2264317
BLAST score
                   55
E value
                   5.0e-22
Match length
                   196
% identity
                   87
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MUG13, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141623
Seq. ID
                   LIB3168-002-P1-K1-B2
Method
                   BLASTX
·NCBI GI
                   g112741
BLAST score
                   400
E value
                   3.0e-39
Match length
                   79
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                   141624
                  LIB3168-002-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  544
E value
                  7.0e-56
Match length
                  128
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141625
                  LIB3168-002-P1-K1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  226
E value
                  1.0e-37
Match length
                  114
```

Seq. No.

Seq. ID

141630

LIB3168-002-P1-K1-C10

```
% identity
                  71
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141626
                  LIB3168-002-P1-K1-B6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4415905
BLAST score
                  132
E value
                  2.0e-68
Match length
                  163
% identity
                  95
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F13K3 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141627
Seq. ID
                  LIB3168-002-P1-K1-B7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  619
E value
                  1.0e-64
Match length
                  120
% identity
                  99
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141628
Seq. ID
                  LIB3168-002-P1-K1-B8
Method
                  BLASTX
NCBI GI
                  g2129659
BLAST score
                  524
E value
                  2.0e-53
Match length
                  151
% identity
                  73
NCBI Description
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
                  (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                  141629
                  LIB3168-002-P1-K1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3236238
BLAST score
                  141
E value
                  3.0e-53
Match length
                  121
% identity
NCBI Description
                  (AC004684) putative ARF1 GTPase activating protein
                  [Arabidopsis thaliana] >gi 4519792 dbj BAA75744.1
                  (AB017876) Aspl [Arabidopsis thaliana]
```

```
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  500
E value
                   6.0e-51
Match length
                  99
% identity
                  97
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141631
Seq. ID
                  LIB3168-002-P1-K1-C11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  621
E value
                  5.0e-65
Match length
                  119
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141632
Seq. No.
                  LIB3168-002-P1-K1-C2
Seq. ID
                  BLASTN
Method
                  g3228389
NCBI GI
BLAST score
                  393
                  0.0e + 00
E value
                  393
Match length
% identity
                  100
NCBI Description
                  Genomic sequence for Arabidopsis thaliana BAC F17L21,
                  complete sequence [Arabidopsis thaliana]
                  141633
Seq. No.
                  LIB3168-002-P1-K1-C3
Seq. ID
Method
                  BLASTX
                  q3334323
NCBI GI
BLAST score
                  656
                  7.0e-69
E value
Match length
                  151
% identity
NCBI Description
                  GTP-BINDING PROTEIN SAR1A >qi 1314860 (U56929) Sar1 homolog
                   [Arabidopsis thaliana] >gi 21\overline{0}4532 gb AAC78700.1
                   (AF001308) SAR1/GTP-binding secretory factor [Arabidopsis
                  thaliana] >gi 2104550 (AF001535) AGAA.4 [Arabidopsis
                  thaliana]
Seq. No.
                  141634
Seq. ID
                  LIB3168-002-P1-K1-C4
Method
                  BLASTX
NCBI GI
                  q3924605
BLAST score
                  509
E value
                  9.0e-52
Match length
                  116
% identity
                   (AF069442) putative inhibitor of apoptosis [Arabidopsis
NCBI Description
```

thaliana]

E value

```
Seq. No.
                  141635
Seq. ID
                  LIB3168-002-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  638
E value
                  6.0e-67
Match length
                  127
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141636
Seq. ID
                  LIB3168-002-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  342
E value
                  3.0e - 32
Match length
                  130
                  57
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  717
E value
                  4.0e-76
Match length
                  159
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141638
                  LIB3168-002-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  634
                  2.0e-66
E value
                  123
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141639
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-D1
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  608
```

2.0e-63

```
148
Match length
                   80
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   LIB3168-002-P1-K1-D11
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112682
BLAST score
                   696
                   1.0e-73
E value
Match length
                   148
% identity
                   89
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                  141641
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   571
E value
                   6.0e-59
Match length
                  123
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141642
                  LIB3168-002-P1-K1-D2
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112681
BLAST score
                   692
E value
                   4.0e-73
                  167
Match length
                   82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                  141643
Seq. ID
                  LIB3168-002-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  313
E value
                  6.0e-29
Match length
                  60
% identity
                  97
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  141644
Seq. ID
                  LIB3168-002-P1-K1-D6
Method
                 BLASTX
NCBI GI
                  g2979559
BLAST score
                  433
E value
                  4.0e-43
Match length
                  91
% identity
NCBI Description
                  (AC003680) putative DNA binding protein [Arabidopsis
                  thaliana]
Seq. No.
                  141645
Seq. ID
                  LIB3168-002-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  3.0e-67
Match length
                  123
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141646
Seq. No.
                  LIB3168-002-P1-K1-D8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2623303
BLAST score
                  447
E value
                  1.0e-44
Match length
                  88
% identity
                  (AC002409) putative cytochrome P450 [Arabidopsis thaliana]
NCBI Description
                  141647
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-D9
Method
                  BLASTX
                                                             NCBI GI
                  g112741
BLAST score
                  725
E value
                  4.0e-77
Match length
                  135
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >qi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >qi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >qi 395201 emb CAA80868
                  (224744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141648
                  LIB3168-002-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  626
E value
                  2.0e-65
Match length
                  123
```

```
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141649
Seq. ID
                  LIB3168-002-P1-K1-E10
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  450
E value
                  3.0e-50
Match length
                  107
                  87
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141650
Seq. No.
                  LIB3168-002-P1-K1-E11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4204299
BLAST score
                  675
E value
                  4.0e-71
Match length
                  131
% identity
                  100
NCBI Description (AC003027) lcl prt seq No definition line found
                  [Arabidopsis thaliana]
Seq. No.
                  141651
Seq. ID
                  LIB3168-002-P1-K1-E12
Method
                  BLASTN
NCBI GI
                  g3256065
BLAST score
                  343
E value
                  0.0e + 00
Match length
                  363
% identity
                  99
                  Arabidopsis thaliana mRNA for chloroplast NAD-dependent
NCBI Description
                  malate dehydrogenase
                  141652
Seq. No.
                  LIB3168-002-P1-K1-E2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1107501
BLAST score
                  385
                  3.0e-37
E value
Match length
                  128
% identity
                  62
                  (X91954) orf [Arabidopsis thaliana] >gi 3367530 (AC004392)
NCBI Description
                  Match to qb X91954 orf gene product from A. thaliana. ESTs
                  gb_Z17604, gb_H76594, gb_AA597972 and gb_AA394824 come from
                  this gene. [Arabidopsis thaliana]
Seq. No.
                  141653
Seq. ID
                  LIB3168-002-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  q514324
```

226

BLAST score

Seq. ID

```
E value
                  9.0e-31
Match length
                  107
% identity
NCBI Description
                  (L34773) RNA polymerase subunit [Arabidopsis thaliana]
                  >gi 2462755 (AC002292) RNA polymerase subunit (isoform B)
                  [Arabidopsis thaliana] >gi 1586550 prf 2204246B RNA
                  polymerase [Arabidopsis thaliana]
                  141654
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-E4
Method
                  BLASTN
NCBI GI
                  g4539331
BLAST score
                  205
                  1.0e-111
E value
                  455
Match length
% identity
                  95
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F22I13
NCBI Description
                  (ESSA project)
Seq. No.
                  141655
                  LIB3168-002-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  478
E value
                  3.0e-48
Match length
                  111
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141656
                  LIB3168-002-P1-K1-E6
Seq. ID
                  BLASTN
Method
                  g3985950
NCBI GI
BLAST score
                  434
                  0.0e + 00
E value
                  488
Match length
                  99
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MPI10, complete sequence [Arabidopsis thaliana]
                  141657
Seq. No.
                  LIB3168-002-P1-K1-E7
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4757417
BLAST score
                  115
E value
                  7.0e-58
Match length
                  377
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  T30G6, complete sequence
                  141658
Seq. No.
```

LIB3168-002-P1-K1-E8

Seq. No.

141663

```
Method
                  BLASTX
NCBI GI
                   g1628583
BLAST score
                   625
                   3.0e-65
E value
Match length
                   120
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 125
                  cruciferin seed storage protein [Arabidopsis thaliana]
                   141659
Seq. No.
                  LIB3168-002-P1-K1-F1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2828278
BLAST score
                  219
E value
                  1.0e-120
Match length
                   472
                   97
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T18B16
                   (ESSAII project)
                  141660
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-F11
Method
                  BLASTX
                  g1526424
NCBI GI
BLAST score
                  358
E value
                  3.0e - 34
Match length
                  83
% identity
                  (D64140) LEA protein in group 3 [Arabidopsis thaliana]
NCBI Description
                  141661
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-F12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  373
E value
                  8.0e-36
Match length
                  87
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141662
Seq. ID
                  LIB3168-002-P1-K1-F2
Method
                  BLASTN
NCBI GI
                  q3068702
BLAST score
                  95
E value
                  8.0e-46
Match length
                  95
% identity
                  100
NCBI Description
                  Arabidopsis thaliana putative transmembrane protein Glp
                   (AtG1), putative nuclear DNA-binding protein G2p (AtG2),
                  Eml protein (ATEM1), putative chlorophyll synthetase
                  (AtG4), putative transmembrane protein G5p (AtG5), put
```

```
LIB3168-002-P1-K1-F3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  578
E value
                  8.0e-60
Match length
                  138
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141664
Seq. No.
                  LIB3168-002-P1-K1-F4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  599
E value
                  2.0e-62
                  129
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  1.41665
Seq. ID
                  LIB3168-002-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  q4204299
BLAST score
                  421
E value
                  1.0e-41
Match length
                  84
% identity
                  (AC003027) 1cl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
                  141666
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  3.0e-67
Match length
                  123
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141667
Seq. ID
                  LIB3168-002-P1-K1-F9
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  672
E value
                  8.0e-71
Match length
                  152
% identity
                  87
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
```

cruciferin precursor (CRB) - Arabidopsis thaliana >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana]

141668 Seq. No.

Seq. ID LIB3168-002-P1-K1-G1

BLASTN Method g1628582 NCBI GI 77 BLAST score 5.0e-36 E value

Match length 77 35 % identity

Arabidopsis thaliana 12S cruciferin seed storage protein NCBI Description

(ATCRU3) gene, complete cds

141669 Seq. No.

LIB3168-002-P1-K1-G10 Seq. ID

Method BLASTX NCBI GI g1628583 BLAST score 112 3.0e-05 E value 66 Match length 94 % identity

(U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

141670 Seq. No.

LIB3168-002-P1-K1-G11 Seq. ID

BLASTX Method NCBI GI g112681 BLAST score 760 E value 4.0e-81 Match length 144 99 % identity

12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509 NCBI Description

cruciferin precursor (CRA1) - Arabidopsis thaliana

>qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis

thaliana]  $>gi_808936_emb_CAA32493_ (X14312)$  12S seed

storage protein [Arabidopsis thaliana]

141671 Seq. No.

Seq. ID LIB3168-002-P1-K1-G12

Method BLASTN NCBI GI g11804 195 BLAST score 1.0e-105 E value 333 Match length 92 % identity

Tobacco chloroplast genes for 4.5S and 5S ribosomal RNA NCBI Description

141672 Seq. No.

Seq. ID LIB3168-002-P1-K1-G3

Method BLASTN q608672 NCBI GI BLAST score 296

```
E value
                  1.0e-166
Match length
                  319
% identity
                  99
NCBI Description
                  Arabadopsis thaliana Landsberg AAP5 mRNA
Seq. No.
                  141673
                  LIB3168-002-P1-K1-G4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  624
                  4.0e-65
E value
Match length
                  121
% identity
                  98
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141674
Seq. ID
                  LIB3168-002-P1-K1-G5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  635
E value
                  2.0e-66
Match length
                  123
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141675
Sea. ID
                  LIB3168-002-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  3.0e-67
Match length
                  123
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141676
Seq. ID
                  LIB3168-002-P1-K1-G7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  510
E value
                  4.0e-52
Match length
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141677
Seq. ID
                  LIB3168-002-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  q112737
```

NCBI Description

```
BLAST score
E value
                  5.0e-60
Match length
                  139
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  141678
Seq. No.
                  LIB3168-002-P1-K1-G9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  212
E value
                  6.0e-17
Match length
                  69
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141679
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  578
E value
                  8.0e-60
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141680
Seq. ID
                  LIB3168-002-P1-K1-H10
Method
                  BLASTN
NCBI GI
                  g2618604
BLAST score
                  197
E value
                  1.0e-107
Match length
                  201
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MTG13, complete sequence [Arabidopsis thaliana]
                  141681
Seq. No.
                  LIB3168-002-P1-K1-H12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  549
E value
                  2.0e-56
Match length
                  131
% identity
                  80
```

12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

BLAST score

E value ·

266

1.0e-148

```
>gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
storage protein [Arabidopsis thaliana]
```

```
Seq. No.
                  141682
                  LIB3168-002-P1-K1-H2
Seq. ID
Method
                  BLASTN
                  q1628582
NCBI GI
BLAST score
                  33
E value
                  5.0e-09
Match length
                  144
% identity
                  89
NCBI Description
                  Arabidopsis thaliana 12S cruciferin seed storage protein
                  (ATCRU3) gene, complete cds
Seq. No.
                  141683
Seq. ID
                  LIB3168-002-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  594
E value
                  1.0e-61
Match length
                  120
                  96
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB3168-002-P1-K1-H5
Method
                  BLASTX
NCBI GI
                  q2129657
BLAST score
                  480
E value
                  3.0e-48
Match length
                  125
% identity
NCBI Description
                  oleosin isoform - Arabidopsis thaliana
                  >gi 987014 emb CAA90877 (Z54164) oleosin [Arabidopsis
                  thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                  [Arabidopsis thaliana]
Seq. No.
                  141685
Seq. ID
                  LIB3168-002-P1-K1-H6
Method . .
                  BLASTX
NCBI GI
                  q81546
BLAST score
                  244
                  1.0e-20
E value
Match length
                  154
% identity
                  37
NCBI Description
                  alpha-globulin type B precursor (tandem 1) - upland cotton
                  (fragment)
Seq. No.
                  141686
Seq. ID
                  LIB3168-002-P1-K1-H7
Method
                  BLASTN
NCBI GI
                  g2842474
```

Method

BLASTX

```
266
Match length
% identity
                  100
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
Seq. No.
                  141687
Seq. ID
                  LIB3168-002-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  q112682
                  697
BLAST score
E value
                  1.0e-73
Match length
                  159
                  83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141688
Seq. ID
                  LIB3168-002-P1-K1-H9
                  BLASTX
Method
NCBI GI
                  g2583108
BLAST score
                  413
                  1.0e-40
E value
                  103
Match length
% identity
                  (AC002387) putative surface protein [Arabidopsis thaliana]
NCBI Description
                  141689
Seq. No.
Seq. ID
                  LIB3168-003-P1-K1-A1
Method
                  BLASTN
NCBI GI
                  g2281081
BLAST score
                  173
                  2.0e-92
E value
                  394
Match length
                  97
% identity
                  Arabidopsis thaliana chromosome II BAC F18019 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  141690
Seq. No.
                  LIB3168-003-P1-K1-A7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
                  291
BLAST score
E value
                  2.0e-26
Match length
                  97
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141691
                  LIB3168-003-P1-K1-A8
Seq. ID
```

```
NCBI GI
                  g1628583
                  650
BLAST score
E value
                  2.0e-68
Match length
                  127
                  98
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141692
Seq. No.
Seq. ID
                  LIB3168-003-P1-K1-A9
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  580
                  3.0e-60
E value
                  110
Match length
% identity
                  100
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141693
                  LIB3168-003-P1-K1-B1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141694
Seq. ID
                  LIB3168-003-P1-K1-B2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  619
                  1.0e-64
E value
                  120
Match length
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141695
Seq. No.
Seq. ID
                  LIB3168-003-P1-K1-B7
Method
                  BLASTN
NCBI GI
                  g2673901
BLAST score
                  382
E value
                  0.0e + 00
Match length
                  382
% identity
                  100
                  Arabidopsis thaliana chromosome II BAC T24P15 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
```

```
141696
 Seq. No.
                   LIB3168-003-P1-K1-B9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1345973
BLAST score
                   522
                   3.0e-53
E value
Match length
                   114
 % identity
                   OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                   >gi 541882 pir JQ2335 omega-3 fatty acid desaturase (EC
                   1.14.99.-) CF3 - Arabidopsis thaliana >gi 408483 (L22931)
                   omega-3 fatty acid desaturase [Arabidopsis thaliana]
                   >gi 471091 dbj BAA04505 (D17579) fatty acid desaturase
                   [Arabidopsis thaliana] >gi_1197795_dbj_BAA05514_ (D26508)
                   microsomal omega-3 fatty acid desaturase [Arabidopsis
                   thaliana] >gi 3420053 (AC004680) omega-3 fatty acid
                   desaturase [Arabidopsis thaliana]
                   141697
Seq. No.
Seq. ID
                   LIB3168-003-P1-K1-C1
Method
                   BLASTX
NCBI GI
                   q112682
BLAST score
                   646
E value
                   1.0e-67
Match length
                   153
% identity
                   81
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   141698
Seq. ID
                   LIB3168-003-P1-K1-C3
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   538
E value
                   5.0e-55
Match length
                   101
% identity
                   100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141699
                   LIB3168-003-P1-K1-C7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4455200
                   393
BLAST score
E value
                   3.0e-38
Match length
                   87
% identity
                   (AL035440) putative CDP-diacylglycerol synthetase
NCBI Description
                   [Arabidopsis thaliana]
```

141700

Seq. No.

Match length

153

```
Seq. ID
                  LIB3168-003-P1-K1-C8
Method
                  BLASTX .
NCBI GI
                  g112741
BLAST score
                  770
E value
                  3.0e-82
Match length
                  144
% identity
                  99
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                 3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141701
                  LIB3168-003-P1-K1-C9
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4662609
BLAST score
                  278
E value
                  1.0e-155
Match length
                  383
% identity
                  96
NCBI Description
                 Genomic sequence for Arabidopsis thaliana BAC F10A5,
                  complete sequence
Seq. No.
                  141702
                  LIB3168-003-P1-K1-D1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  663
E value
                  8.0e-70
Match length
                  139
% identity
NCBI Description
                 (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141703
                 LIB3168-003-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  233
                  1.0e-19
E value
                  46
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                 cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141704
Seq. ID
                 LIB3168-003-P1-K1-D3
Method
                 BLASTX
NCBI GI
                 q1703220
BLAST score
                 717
E value
                  5.0e-76
```

S24. . .

Match length

470

```
% identity
NCBI Description
                  AIG2 PROTEIN >gi 1127806 (U40857) AIG2 [Arabidopsis
                  thaliana]
Seq. No.
                  141705
Seq. ID
                  LIB3168-003-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  850
E value
                  1.0e-91
Match length
                  161
                  98
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  141706
Seq. No.
Seq. ID
                  LIB3168-003-P1-K1-D9
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  637
                  1.0e-66
E value
Match length
                  146
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__$08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141707
Seq. ID
                  LIB3168-003-P1-K1-E1
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  375
E value
                  3.0e-36
Match length
                  100
% identity
                  74
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb_CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  141708
Seq. No.
                  LIB3168-003-P1-K1-E7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3402671
BLAST score
                  431
E value
                  0.0e + 00
```

BLAST score

613

```
% identity
 NCBI Description
                    Arabidopsis thaliana chromosome II BAC T16B24 genomic
                    sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    141709
 Seq. ID
                    LIB3168-004-P1-K1-A1
 Method
                    BLASTN
 NCBI GI
                    g2351064
BLAST score
                    40
E value
                    5.0e-14
 Match length
                    56
 % identity
                    95
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
 NCBI Description
                    MDJ22, complete sequence [Arabidopsis thaliana]
                    141710
 Seq. No.
 Seq. ID
                    LIB3168-004-P1-K1-A11
                    BLASTX
 Method
                    g1730560
 NCBI GI
 BLAST score
                    374
 E value
                    4.0e-36
 Match length
                    111
 % identity
                    67
                   ALPHA-GLUCAN PHOSPHORYLASE, H ISOZYME (STARCH PHOSPHORYLASE
 NCBI Description
                   H) >gi_510932 emb_CAA84494_ (Z35117) alpha 1,4-glucan phosphorylase type H [Vicia faba]
 Seq. No.
                    141711
 Seq. ID
                    LIB3168-004-P1-K1-A2
 Method
                    BLASTN
 NCBI GI
                    g4468103
 BLAST score
                    181
 E value
                    2.0e-97
 Match length
                    235
                    97
 % identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone M3E9
 NCBI Description
                    (ESSA project)
 Seq. No.
                    141712
 Seq. ID
                    LIB3168-004-P1-K1-A5
 Method
                    BLASTX
 NCBI GI
                    g112681
 BLAST score
                    700
 E value
                    4.0e-74
 Match length
                    137
 % identity
                    99
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
 NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    141713
                   LIB3168-004-P1-K1-A6
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                    g112681
```

```
E value
                  5.0e-64
Match length
                  121
% identity
                  98
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141714
Seq. No.
                  LIB3168-004-P1-K1-A7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2828181
BLAST score
                  269
E value
                  1.0e-150
Match length
                  373
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MLE8, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141715
                  LIB3168-004-P1-K1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
                  595
BLAST score
                  7.0e-62
E value
                  138
Match length
                  82
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141716
                  LIB3168-004-P1-K1-B1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g1777655
BLAST score
                  126
                  1.0e-64
E value
                  158
Match length
                  95
% identity
                  Crossosoma californicum 18S ribosomal RNA gene, partial
NCBI Description
                  sequence
                  141717
Seq. No.
                  LIB3168-004-P1-K1-B10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3335331
                  404
BLAST score
                  0.0e + 00
E value
Match length
                  428
% identity
                  99
                  Arabidopsis thaliana chromosome 1 BAC T8F5 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
```

17312

141718

Seq. No.

```
Seq. ID
                  LIB3168-004-P1-K1-B12
Method
                  BLASTN
NCBI GI
                  g16472
BLAST score
                  305
                  1.0e-171
E value
Match length
                  313
% identity
                  99
NCBI Description A.thaliana rRNA repeat unit, most frequent IGR type
Seq. No.
                  141719
                  LIB3168-004-P1-K1-B3
Seq. ID
Method
                  BLASTN
NCBI GI
                  q1628582
BLAST score
                  81
                  7.0e-38
E value
Match length
                  144
% identity
                  41
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                  (ATCRU3) gene, complete cds
Seq. No.
                  141720
Seq. ID
                  LIB3168-004-P1-K1-B4
Method
                  BLASTX
NCBI GI
                  g3023848
BLAST score
                  365
E value ´
                  1.0e-38
Match length
                  93
% identity
                  GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE
NCBI Description
                  PROTEIN (WD-40 REPEAT AUXIN-DEPENDENT PROTEIN ARCA)
                  >gi 2289095 (U77381) WD-40 repeat protein [Arabidopsis
                  thaliana]
Seq. No.
                  141721
Seq. ID
                  LIB3168-004-P1-K1-B5
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  474
E value
                  9.0e-48
Match length
                  115
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141722
Seq. No.
                  LIB3168-004-P1-K1-B6
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112681
BLAST score
                  517
E value
                  9.0e-53
Match length
                  124
                  81
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
```

cruciferin precursor (CRA1) - Arabidopsis thaliana

Match length

431

```
storage protein [Arabidopsis thaliana]
                  141723
Seq. No.
                  LIB3168-004-P1-K1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3582436
BLAST score
                  247
                  5.0e-23
E value
                  99
Match length
% identity
                  (AB017502) beta-D-glucan exohydrolase [Nicotiana tabacum]
NCBI Description
                  141724
Seq. No.
Seq. ID
                  LIB3168-004-P1-K1-C1
Method
                  BLASTX
NCBI GI
                  g266693
BLAST score
                  270
                  3.0e-24
E value
Match length
                  74
                  74
% identity
                  OLEOSIN >gi_282875_pir__S22538 oleosin - Arabidopsis
NCBI Description
                  thaliana >gi_16405_emb_CAA44225_ (X62353) oleosin
                   [Arabidopsis thaliana] > gi 4455257 emb CAB36756.1
                   (AL035523) oleosin, 18.5K [Arabidopsis thaliana]
                  141725
Seq. No.
                  LIB3168-004-P1-K1-C11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score .
                  705
                  9.0e-75
E value
Match length
                  135
                  99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141726
Seq. No.
Seq. ID
                  LIB3168-004-P1-K1-C12
Method
                  BLASTN
NCBI GI
                  g3063690
BLAST score
                  403
E value
                  0.0e + 00
Match length
                  422
                  99
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F4D11
NCBI Description
                  (ESSAII project)
                  141727
Seq. No.
                  LIB3168-004-P1-K1-C3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3108025
BLAST score
                  363
E value
                  0.0e + 00
```

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

BLAST score

421

```
% identity
   NCBI Description
                      Arabidopsis thaliana chromosome 1 BAC T13D8, complete
                      sequence [Arabidopsis thaliana]
                      141728
   Seq. No.
                      LIB3168-004-P1-K1-C7
   Seq. ID
   Method
                      BLASTX
   NCBI GI
                      g112737
   BLAST score
                      580
   E value
                      4.0e-60
   Match length
                      139
                      81
    % identity
                     2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
   NCBI Description
                      PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                      Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                      1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                      (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                      >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
سراه آرار
                      precursor [Arabidopsis thaliana]
   Seq. No.
                      141729
                      LIB3168-004-P1-K1-C8
   Seq. ID
                      BLASTX
   Method
   NCBI GI
                      g2160151
   BLAST score
                      291
   E value
                      2.0e-26
   Match length
                      93
   % identity
   NCBI Description
                      (AC000375) Strong similarity to Brassica aspartic protease
                      (gb_X77260). [Arabidopsis thaliana]
                      141730
   Seq. No.
                      LIB3168-004-P1-K1-D1
   Seq. ID
                      BLASTX
   Method
   NCBI GI
                      g2326363
   BLAST score
                      648
   E value
                      5.0e-68
   Match length
                      142
   % identity
                      (AJ001037) DNA-directed RNA polymerase [Arabidopsis
   NCBI Description
                      thaliana]
   Seq. No.
                      141731
   Seq. ID
                      LIB3168-004-P1-K1-D10
   Method
                      BLASTX
   NCBI GI
                      g1109699
   BLAST score
                      597
                      4.0e-62
   E value
   Match length
                      114
   % identity
                      100
   NCBI Description (X83381) gibberellin 20-oxidase [Arabidopsis thaliana]
                      141732
   Seq. No.
                      LIB3168-004-P1-K1-D11
   Seq. ID
   Method
                      BLASTX
                      g1628583
   NCBI GI
```

```
2.0e-41.
E value
Match length
                  102
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141733
                  LIB3168-004-P1-K1-D12
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
                  729
BLAST score
                  1.0e-77
E value
                  139
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                 cruciferin seed storage protein [Arabidopsis thaliana]
                  141734
Seq. No.
                  LIB3168-004-P1-K1-D2
Seq. ID
                  BLASTX
Method
NCBI GI
                  q3170525
BLAST score
                  446
                  2.0e-44
E value
Match length
                  114
                  75
% identity
                  (AF054615) cellulase [Fragaria x ananassa]
NCBI Description
                  141735
Seq. No.
Seq. ID
                  LIB3168-004-P1-K1-D4
Method
                  BLASTX
                  g1345973
NCBI GI
BLAST score
                  360
                  3.0e-34
E value
Match length
                  114
% identity
                  OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                  >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC
                  1.14.99.-) CF3 - Arabidopsis thaliana >gi_408483 (L22931)
                  omega-3 fatty acid desaturase [Arabidopsis thaliana]
                  >gi 471091 dbj BAA04505 (D17579) fatty acid desaturase
                  [Arabidopsis thaliana] >gi_1197795_dbj_BAA05514_ (D26508)
                  microsomal omega-3 fatty acid desaturase [Arabidopsis
                  thaliana] >gi_3420053 (AC004680) omega-3 fatty acid
                  desaturase [Arabidopsis thaliana]
Seq. No.
                  141736
Seq. ID
                  LIB3168-004-P1-K1-D5
Method
                  BLASTX
NCBI GI.
                  g1628583
BLAST score
                  464
                  1.0e-46
E value
Match length
                  122
% identity
                  75
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (ALO21749) 12S
```

% identity

11

## cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                   141737
                   LIB3168-004-P1-K1-D6
 Seq. ID
                   BLASTX
 Method
 NCBI GI
                   g1628583
 BLAST score
                   343
 E value
                   8.0e-33
 Match length
                   76
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   141738
 Seq. No.
                   LIB3168-004-P1-K1-D7
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g1173187
 BLAST score
                   605
                   5.0e-63
 E value
 Match length
                   122
 % identity
                   95
                   40S RIBOSOMAL PROTEIN S23 (S12) >gi_1362041 pir__S56673
 NCBI Description
                   ribosomal protein S23.e, cytosolic (clone RJ3) - garden
                   strawberry >gi 643074 (U19940) putative 40S ribosomal
                   protein s12 [Fragaria x ananassa]
                   141739
 Seq. No.
 Seq. ID
                   LIB3168-004-P1-K1-D8
 Method
                   BLASTX
 NCBI GI
                   q1628583
 BLAST score
                   625
 E value
                   2.0e-65
 Match length
                   120
 % identity
                   100
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   141740
 Seq. No.
                   LIB3168-004-P1-K1-D9
 Seq. ID
                   BLASTX
 Method
                   g3426039
 NCBI GI
 BLAST score
                   296
 E value
                   9.0e-27
 Match length
                   120
                   57
% identity
                   (AC005168) unknown protein [Arabidopsis thaliana]
 NCBI Description
                   141741
 Seq. No.
                   LIB3168-004-P1-K1-E10
 Seq. ID
                   BLASTX .
 Method
                   g2062164
 NCBI GI
 BLAST score
                   94
 E value
                   4.0e-03
 Match length
                   130
```

```
(AC001645) jasmonate inducible protein isolog [Arabidopsis
NCBI Description
                  thaliana]
                  141742
Seq. No.
Seq. ID
                  LIB3168-004-P1-K1-E11
                  BLASTX
Method
NCBI GI
                  g112682
                  653
BLAST score
                  1.0e-68
E value
                  143
Match length
                  87
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141743
Seq. No.
                  LIB3168-004-P1-K1-E12
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
                  595
BLAST score
                  8.0e-62
E value
                  138
Match length
% identity
                 · 82
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141744
Seq. No.
                  LIB3168-004-P1-K1-E2
Seq. ID
Method -
                  BLASTX
NCBI GI
                  g2501188
                  208
BLAST score
                  2.0e-16
E value
                  59
Match length
                  75
% identity
                  THIAZOLE BIOSYNTHETIC ENZYME >gi 2129750_pir__S71191 TH14
NCBI Description
                  protein homolog - Arabidopsis thaliana >gi 1\overline{11}3783 (U17589)
                  Thil protein [Arabidopsis thaliana]
                  141745
Seq. No.
Seq. ID
                  LIB3168-004-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  g114654
                  266
BLAST score
E value
                  3.0e-23
Match length
                  77
                  78
% identity
NCBI Description ATP SYNTHASE C CHAIN (LIPID-BINDING PROTEIN) (SUBUNIT III)
                  >gi 67898 pir LWNTA H+-transporting ATP synthase (EC
                  3.6.1.34) lipid-binding protein - common tobacco
                  chloroplast >gi_11812_emb_CAA77343 (Z00044) ATPase III
                  subunit [Nicotiana tabacum] >gi 343484 (M10124) ATPase
                  subunit III [Nicotiana tabacum] > gi 224347 prf 1102209A
```

BLAST score

622

```
>qi 225272 prf 1211235G ATPase III [Nicotiana tabacum]
Seq. No.
                   141746
                   LIB3168-004-P1-K1-E5
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2244991
BLAST score
                   247
E value
                   1:0e-136
Match length
                   376
% identity
                   97
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
                   fragment No
Seq. No.
                   141747
                   LIB3168-004-P1-K1-E6
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2244991
                   179
BLAST score
E value
                   4.0e-96
                   274
Match length
% identity
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
                   fragment No
                   141748
Seq. No.
                   LIB3168-004-P1-K1-E7
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2264306
BLAST score
                   112
E value
                   5.0e-56
                   375
Match length
                   100
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MBK5, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141749 ·
Seq. ID
                   LIB3168-004-P1-K1-E8
Method
                   BLASTX
NCBI GI
                   q112741
BLAST score
                   729
E value
                   1.0e-77
Match length
                   136
                   100
% identity
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855 pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   141750
                   LIB3168-004-P1-K1-E9
Seq. ID
                   BLASTX
Method
NCBI GI
                   g1628583
```

ATPase III, H translocating [Nicotiana sp.]

```
5.0e-65
E value
Match length
                   120
                   99
% identity .
NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495 emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141751
Seq. ID
                   LIB3168-004-P1-K1-F1
Method
                   BLASTX
NCBI GI
                   q114661
BLAST score
                   616
E value
                   2.0e-64
Match length
                   137
                   87
% identity
                   ATP SYNTHASE A CHAIN PRECURSOR (SUBUNIT IV)
NCBI Description
                   >gi_67924_pir__LWNT6 H+-transporting ATP synthase (EC
                   3.6.1.34) chain a - common tobacco chloroplast
                   >gi_11813_emb_CAA77344_ (Z00044) ATPase sunthase IV subunit
[Nicotiana tabacum] >gi_225273_prf__1211235H ATPase a
                   [Nicotiana tabacum]
Seq. No.
                   141752
Seq. ID
                   LIB3168-004-P1-K1-F10
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   634
E value
                   2.0e-66
Match length
                   131
% identity
                   93
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana > gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   141753
Seq. No.
                   LIB3168-004-P1-K1-F12
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3421384
BLAST score
                   -678
                   1.0e-71
E value
Match length
                   142
                   92
% identity
                   (AF081067) IAA-Ala hydrolase; IAA-amino acid hydrolase
NCBI Description
                   [Arabidopsis thaliana]
                   141754
Seq. No.
                   LIB3168-004-P1-K1-F7
Seq. ID
Method
                   BLASTX
NCBI GI
                   q3287691
BLAST score
                   194
                   8.0e-15
E value
Match length
                   134
                   39
% identity
NCBI Description
                   (AC003979) Contains similarity to RING zinc finger protein
```

gb X95455 from Gallus gallus. [Arabidopsis thaliana]

...

```
141755
Seq. No.
Seq. ID
                  LIB3168-004-P1-K1-F8
                  BLASTX
Method
NCBI GI
                  g2160151
BLAST score
                  538
E value
                  4.0e-55
Match length
                  121
                  87
% identity
                   (AC000375) Strong similarity to Brassica aspartic protease
NCBI Description
                   (gb_X77260). [Arabidopsis thaliana]
Seq. No.
                  141756
Seq. ID
                  LIB3168-004-P1-K1-F9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  688
E value
                  1.0e-72
Match length
                  143
                  93
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141757
Seq. ID
                  LIB3168-004-P1-K1-G1
                  BLASTN
Method
NCBI GI
                  g2842474
BLAST score
                  174
E value
                  2.0e-93
Match length
                  174
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
Seq. No.
                  141758
Seq. ID
                  LIB3168-004-P1-K1-G10
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  618
E value
                  2.0e-64
Match length
                  120
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141759
Seq. ID
                  LIB3168-004-P1-K1-G3
Method
                  BLASTN
NCBI GI
                  q2656028
BLAST score
                  335
E value
                  0.0e + 00
Match length
                  417
                  97
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
```

MNF13

Match length

119

```
141760
Seq. No.
Seq. ID
                  LIB3168-004-P1-K1-G5
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  499
E value
                  1.0e-50
Match length
                  95
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir_ S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141761
Seq. ID
                  LIB3168-004-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  126
E value
                  4.0e-45
Match length
                  132
% identity
                  68
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936 emb_CAA32493_ (X14312) 125 seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141762
Seq. ID
                  LIB3168-004-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g2213586
BLAST score
                  555
E value
                  4.0e-57
Match length
                  135
% identity
                  84
                  (AC000348) T7N9.6 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141763
Seq. ID
                  LIB3168-004-P1-K1-G9
Method
                  BLASTN
NCBI GI
                  g4106339
BLAST score
                  327
E value
                  0.0e + 00
Match length
                  354
% identity
                  97
                  Arabidopsis thaliana protein phosphatase 2A regulatory
NCBI Description
                  subunit isoform B' delta mRNA, complete cds
Seq. No.
                  141764
Seq. ID
                  LIB3168-004-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  386
E value
                  2.0e-58
```

Seq. ID

```
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141765
Seq. No.
                  LIB3168-004-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112740
BLAST score
                  260
E value
                  1.0e-22
Match length
                  117
% identity
                  51
                  NAPIN 2 PRECURSOR (1.7S SEED STORAGE PROTEIN)
NCBI Description
                  >gi 81691_pir__A25997 napin precursor (napA) - rape
                  >gi 167153 (J02586) prepronapin [Brassica napus] >gi 167155
                  (J02798) napin [Brassica napus]
                  141766
Seq. No.
Seq. ID
                  LIB3168-004-P1-K1-H11 .
Method
                  BLASTN
NCBI GI
                  g1628582
BLAST score
                  52
                  2.0e-20
E value
Match length
                  112 .
% identity
NCBI Description
                  Arabidopsis thaliana 12S cruciferin seed storage protein
                   (ATCRU3) gene, complete cds
                  141767
Seq. No.
Seq. ID
                  LIB3168-004-P1-K1-H12
Method .
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  630
E value
                  6.0e-66
Match length
                  143
% identity
                  85
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141768
                  LIB3168-004-P1-K1-H3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  208
E value
                  4.0e-17
                  56
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141769
Seq. No.
```

LIB3168-004-P1-K1-H5

```
Method
                  BLASTX
NCBI GI
                  g1742961
BLAST score
                   480
E value
                   2.0e-48
                  96
Match length
                   98
% identity
NCBI Description
                   (X94756) cystathionine gamma-synthase [Arabidopsis
Seq. No.
                  141770
                  LIB3168-004-P1-K1-H6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1742961
BLAST score
                  483
E value
                  8.0e-49
Match length
                  97
% identity
NCBI Description
                  (X94756) cystathionine gamma-synthase [Arabidopsis
                  thaliana]
Seq. No.
                  141771
Seq. ID
                  LIB3168-004-P1-K1-H8
Method
                  BLASTN
NCBI GI
                  g4206762
BLAST score
                  251
E value
                  1.0e-139
Match length
                  347
% identity
                  97
NCBI Description
                  Arabidopsis thaliana cell wall-plasma membrane linker
                  protein homolog (CWLP) mRNA, complete cds
Seq. No.
                  141772
Seq. ID
                  LIB3168-004-P1-K1-H9
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  738
E value
                  1.0e-78
Match length
                  139
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141773
Seq. ID
                  LIB3168-005-P1-K1-A1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  380
E value
                  1.0e-36
Match length
                  97
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  141774
                  LIB3168-005-P1-K1-A10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  755
E value
                  1.0e-80
Match length
                  143
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141775
Seq. No.
Seq. ID
                  LIB3168-005-P1-K1-A12
Method
                  BLASTN
NCBI GI
                  q4512656
BLAST score
                  160
E value
                  1.0e-84
                  376
Match length
% identity
                  Arabidopsis thaliana chromosome II BAC F7D19 genomic
NCBI Description
                  sequence, complete sequence
                  141776
Seq. No.
                  LIB3168-005-P1-K1-A3
Seq. ID .
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  628
                  1.0e-65
E value
Match length
                  134
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana | >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141777
Seq. ID
                  LIB3168-005-P1-K1-A5
Method
                  BLASTX .
NCBI GI
                  q1351272
BLAST score
                  479
E value
                  3.0e-48
Match length
                  112
% identity
                  TRIOSEPHOSPHATE ISOMERASE, CYTOSOLIC (TIM) >gi 414550
NCBI Description
                  (U02949) cytosolic triose phosphate isomerase [Arabidopsis
                  thaliana] >gi 742408 prf 2009415A triose phosphate
                  isomerase [Arabidopsis thaliana]
Seq. No.
                  141778
                  LIB3168-005-P1-K1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  703
E value
                  2.0e-74
Match length
                  144
% identity
                  92
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
```

```
cruciferin precursor (CRB) - Arabidopsis thaliana >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed storage protein [Arabidopsis thaliana]
```

```
Seq. No.
                  141779
                  LIB3168-005-P1-K1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4104058
BLAST score
                  248
E value
                  3.0e-21
Match length
                  106
% identity
NCBI Description
                  (AF031195) blue copper-binding protein homolog [Triticum
                  aestivum]
Seq. No.
                  141780
Seq. ID
                  LIB3168-005-P1-K1-B10
Method
                  BLASTX
NCBÍ GI
                  q112741
BLAST score
                  705
E value
                  9.0e-75
Match length
                  131
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Sea. No.
                  141781
Seq. ID
                  LIB3168-005-P1-K1-B11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  440
E value
                  1.0e-43
Match length
                  83.
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141782
                  LIB3168-005-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  674
```

NCBI GI g1628583
BLAST score 674
E value 4.0e-71
Match length 142
% identity 92

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 141783

```
LIB3168-005-P1-K1-B2
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  314
E value
                  7.0e-29
                  60
Match length
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141784
Seq. No.
                  LIB3168-005-P1-K1-B3
Seq. ID
Method
                  BLASTN
                  g4512656
NCBI GI
BLAST score
                  165
                  1.0e-87
E value
                  357
Match length
                  83
% identity
                  Arabidopsis thaliana chromosome II BAC F7D19 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  141785
                  LIB3168-005-P1-K1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  641
E value
                  3.0e-67
                  133
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141786
Seq. No.
                  LIB3168-005-P1-K1-B6
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4455348
BLAST score
                  404
                  0.0e + 00
E value
                  419
Match length
                  99
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T13J8
NCBI Description
                   (ESSAII project)
Seq. No.
                  141787
                  LIB3168-005-P1-K1-B7
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

Match length

```
Seq. No.
                    141788
  Seq. ID
                    LIB3168-005-P1-K1-B8
  Method
                    BLASTX
  NCBI GI
                    g112741
  BLAST score
                    741
  E value
                     6.0e-79
  Match length
                     138
  % identity
                     100
  NCBI Description
                     2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                     PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                    Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                     3 precursor [Arabidopsis thaliana] >gi_395201_emb CAA80868
                     (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                    >gi 4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                    precursor [Arabidopsis thaliana]
  Seq. No.
                     141789
  Seq. ID
                    LIB3168-005-P1-K1-C1
  Method
                    BLASTN
  NCBI GI
                     g3790586
  BLAST score
                    109
  E value
                     3.0e-54
  Match length
                    175
  % identity
                     100
  NCBI Description
                    Arabidopsis thaliana RING-H2 finger protein RHF2a mRNA,
                    complete cds
                     141790
  Seq. No.
                    LIB3168-005-P1-K1-C10
  Seq. ID
  Method
                    BLASTX
  NCBI GI
                     g1628583
  BLAST score
                     625
  E value
                     2.0e-65
  Match length
                     120
  % identity
                     100
NCBI Description
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
                     thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
  Seq. No.
                     141791
  Seq. ID
                    LIB3168-005-P1-K1-C12
  Method
                    BLASTX
  NCBI GI
                     g3695378
  BLAST score
                     404
 · E value
                     2.0e-39
  Match length
                    106
  % identity
                     (AF096370) contains similarity to NAM (no apical meristem)
  NCBI Description
                    -like proteins [Arabidopsis thaliana]
                    141792
  Seq. No.
                    LIB3168-005-P1-K1-C2
  Seq. ID
                    BLASTX
  Method
  NCBI GI
                    g1628583
                    351
  BLAST score
  E value
                    3.0e - 33
```

Seq. ID

```
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141793
Seq. No.
Seq. ID
                  LIB3168-005-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  599
E value
                  3.0e-62
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S -
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141794
Seq. No.
                  LIB3168-005-P1-K1-C5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
                  595
BLAST score
                  8.0e-62
E value
Match length
                  138
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141795
                  LIB3168-005-P1-K1-C6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  767
E value
                  5.0e-82
                  145
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141796
Seq. No.
Seq. ID
                  LIB3168-005-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  704
E value
                  1.0e-74
Match length
                  137
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141797
Seq. No.
```

LIB3168-005-P1-K1-D1

```
BLASTX
Method
NCBI GI
                   .g1628583
BLAST score-
                    627
E value
                    1.0e-65
                    123
Match length
                    98
% identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    141798
Seq. No.
Seq. ID
                    LIB3168-005-P1-K1-D10
Method
                    BLASTX
NCBI GI
                    q1628583
                    622
BLAST score
                    5.0e-65
E value
                    120
Match length
                    99
% identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    141799
Seq. No.
Seq. ID
                    LIB3168-005-P1-K1-D11
Method
                    BLASTX
NCBI GI
                    g1703108
BLAST score
                    638
E value
                    7.0e-67
Match length
                    118
% identity
                    100
                   ACTIN 2/7 >gi_2129525_pir__S71210 actin 2 - Arabidopsis thaliana >gi_2129528_pir__S68107 actin 7 - Arabidopsis thaliana >gi_1049307 (U37281) actin-2 [Arabidopsis
NCBI Description
                    thaliana] >gi_1943863 (U27811) actin7 [Arabidopsis
                    thaliana]
Seq. No.
                    141800
Seq. ID
                    LIB3168-005-P1-K1-D2
                    BLASTX
Method
NCBI GI
                    g112681
                    600
BLAST score
                    2.0e-62
E value
Match length
                    115
                    97
% identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir S08509
NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
Seq. No.
                    141801
Seq. ID
                    LIB3168-005-P1-K1-D3
                    BLASTX
Method
                    g1628583
NCBI GI
BLAST score
                    684
E value
                    3.0e-72
Match length
                    147
```

```
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   141802
Seq. No.
                   LIB3168-005-P1-K1-D5
Seq. ID
                   BLASTX
Method
                   g2244906
NCBI GI
BLAST score
                   392
                   5.0e-38 ·
E value
Match length
                   116
                   69
% identity
NCBI Description
                   (Z97339) indole-3-acetate beta-glucosyltransferase
                   [Arabidopsis thaliana]
                   141803
Seq. No.
Seq. ID
                   LIB3168-005-P1-K1-D6
Method
                   BLASTX
NCBI GI
                   q112739
BLAST score
                   184
E value
                   7.0e-14
Match length
                   35
                   97
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
precursor [Arabidopsis thaliana]
                   141804
Seq. No.
Seq. ID
                   LIB3168-005-P1-K1-D7
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   595
                   5.0e-62
E value
Match length
                   116
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   141805
Seq. No.
Seq. ID
                   LIB3168-005-P1-K1-D8
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   625
                   2.0e-65
E value
Match length
                   120
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
```

141806

Seq. No.

```
LIB3168-005-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141807
                  LIB3168-005-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  620
E value
                  9.0e-65
Match length
                  143
% identity
                  84
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141808
Seq. ID
                  LIB3168-005-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  575
E value
                  2.0e-59
Match length
                  143
% identity
                  80
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141809
Seq. ID
                  LIB3168-005-P1-K1-E12
                  BLASTN
Method
NCBI GI
                  g16231
                  78
BLAST score
E value
                  3.0e-36
Match length
                  109
                  93
% identity
NCBI Description
                  Arabidopsis CRA1 gene for 12S seed storage protein
                  >gi 166675 gb M37247 ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  141810
Seq. No.
Seq. ID
                  LIB3168-005-P1-K1-E2
Method
                  BLASTX
NCBI GI
                  g112741
                  728
BLAST score
E value
                  2.0e-77
Match length
                  137
```

99

% identity



NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. Seq. ID 141811

LIB3168-005-P1-K1-E3

Method BLASTX
NCBI GI g112737
BLAST score 566
E value 2.0e-58
Match length 137
% identity 80

NCBI Description

2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi 68853 pir\_NWMU1 2S albumin 1 precursor -

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1

precursor [Arabidopsis thaliana]

Seq. No. 141812

Seq. ID LIB3168-005-P1-K1-E5

Method BLASTX
NCBI GI g112682
BLAST score 620
E value 9.0e-65
Match length 143
% identity 82

NCBI Description

12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 141813

Seq. ID LIB3168-005-P1-K1-E7

Method BLASTX
NCBI GI g1628583
BLAST score 593
E value 9.0e-62
Match length 116
% identity 97

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 141814

Seq. ID LIB3168-005-P1-K1-E8

Method BLASTX
NCBI GI g4263523
BLAST score 176
E value 2.0e-34
Match length 136

Match length

```
% identity
NCBI Description (AC004044) hypothetical protein [Arabidopsis thaliana]
                   141815
Seq. ID
                   LIB3168-005-P1-K1-F1
Method
                   BLASTX
NCBI GI
                   g2129659
BLAST score
                   378
                   2.0e-36
E value
Match length
                   120
                   68
% identity
NCBI Description
                   oleosin, isoform 21K - Arabidopsis thaliana >qi 725260
                   (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                   141816
Seq. ID
                   LIB3168-005-P1-K1-F10
Method
                   BLASTN
NCBI GI
                   g2864607
BLAST score
                   414
E value
                   0.0e+00
Match length
                   418
                   100
% identity
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F10M6
                   (ESSAII project)
Seq. No.
                   141817
Seq. ID
                   LIB3168-005-P1-K1-F11
Method
                   BLASTX
NCBI GI
                   g2129657
BLAST score
                   433
E value
                   8.0e-43
Match length
                   116
% identity
                   78
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   141818
Seq. ID
                   LIB3168-005-P1-K1-F12
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   611
E value
                   1.0e-63
Match length
                   117
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   141819
Seq. No.
                   LIB3168-005-P1-K1-F2
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112681
BLAST score
                   492
E value
                   8.0e-50
```

```
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   crùciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   tha\overline{l}iana] >gi_808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   141820
Seq. ID
                   LIB3168-005-P1-K1-F3
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   411
E value
                   3.0e-40
Match length
                   113
                   73
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141821
Seq. ID
                   LIB3168-005-P1-K1-F5
Method
                   BLASTX
NCBI GI
                   q116527
BLAST score
                   642
E value
                   2.0e-67
Match length
                   137
                   88
% identity
                   PROBABLE CLPP-LIKE PROTEASE (ENDOPEPTIDASE CLP) (ORF 196)
NCBI Description
                   >gi_1143166 (U32397) ClpP protease [Nicotiana tabacum]
>gi_2924270_emb_CAA77422_ (Z00044) ATP-dependent protease
                   proteolytic subuni [Nicotiana tabacum]
Seq. No.
                   141822
Seq. ID
                   LIB3168-005-P1-K1-F6
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   171
E value
                   4.0e-12
Match length
                   81
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141823
Seq. ID
                   LIB3168-005-P1-K1-F7
Method
                   BLASTX
NCBI GI
                   q112682
BLAST score
                   580
E value
                   3.0e-60
Match length
                  110
% identity
                   99
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
141824
Seq. No.
                  LIB3168-005-P1-K1-F8
Seq. ID
                  BLASTX
Method
NCBI GI
                   g2194142
BLAST score
                   164
                   7.0e-43
E value
Match length
                   104
% identity
                   92
                   (AC002062) ESTs gb N38288, gb T43486, qb AA395242 come from
NCBI Description
                   this gene. [Arabidopsis thaliana]
Seq. No.
                   141825
Seq. ID
                  LIB3168-005-P1-K1-F9
Method
                  BLASTN
NCBI GI
                   g2182286
BLAST score
                   71
E value
                   9.0e-32
Match length
                   115
% identity
                   90
                  Sequence of BAC F20P5 from Arabidopsis thaliana chromosome
NCBI Description

    complete sequence [Arabidopsis thaliana]

Seq. No.
                   141826
Seq. ID.
                  LIB3168-005-P1-K1-G1
Method
                  BLASTN
NCBI GI
                   q4490717
BLAST score
                   253
E value
                   1.0e-140
Match length
                   395
% identity
                   99
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone
                  project)
Seq. No.
                   141827
Seq. ID
                  LIB3168-005-P1-K1-G10
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                   471
E value
                   3.0e-47
Match length
                  131
% identity
                  73
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141828
Seq. ID
                  LIB3168-005-P1-K1-G12
                  BLASTN
Method
NCBI GI
                  g3449330
BLAST score
                  415
                  0.0e + 00
E value
Match length
                  430
```

Match length

```
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MDJ14, complete sequence [Arabidopsis thaliana]
                  141829
Seq. No.
Seq. ID
                  LIB3168-005-P1-K1-G2
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  574
                  2.0e-59
E value
                  119
Match length
                  89
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141830
Seq. ID
                  LIB3168-005-P1-K1-G3
Method
                  BLASTN
NCBI GI
                  g903687
BLAST score
                  60
E value.
                  5.0e-25
Match length
                  1.70
% identity
                  90
                  Arabidopsis thaliana leucine zipper mRNA, complete cds
NCBI Description
Seq. No.
                  141831
Seq. ID
                  LIB3168-005-P1-K1-G5
Method
                  BLASTX
NCBI GI
                  g4510377
BLAST score
                  322
E value
                  5.0e-32
Match length
                  142
% identity
                  56
                   (AC007017) putative RNA helicase A [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141832
Seq. ID
                  LIB3168-005-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  404
E value
                  8.0e-40
Match length
                  83
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141833
Seq. No.
                  LIB3168-005-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  316
E value
                  4.0e-29
```

Seq. No.

```
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141834
Seq. ID
                  LIB3168-005-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  603
E value
                  8.0e-63
Match length
                  121
% identity
                  98
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141835
Seq. ID
                  LIB3168-005-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  577
E value
                  1.0e-59
Match length
                  140
% identity
                  81
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141836
Seq. ID
                  LIB3168-005-P1-K1-H11
Method
                  BLASTN
NCBI GI
                  q2760164
BLAST score
                  42
E value
                  3.0e-14
                  295
Match length
% identity
                  83
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K18P6, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141837
Seq. ID
                  LIB3168-005-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  482
E value
                  1.0e-48
                  124
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

NCBI GI

```
LIB3168-005-P1-K1-H2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3335171
BLAST score
                   607
E value
                   3.0e-63
Match length
                  132
                   90
% identity
NCBI Description
                   (AF067858) embryo-specific protein 3 [Arabidopsis thaliana]
Seq. No.
                   141839
Seq. ID
                  LIB3168-005-P1-K1-H3
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  335
E value
                   1.0e-71
Match length
                   140
                   97
% identity
                   (U66916) 125 cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141840
                  LIB3168-005-P1-K1-H5
Seq. ID
Method
                  BLASTN
NCBI GI
                   q3063690
BLAST score
                  307
E value
                   1.0e-172
Match length
                  347
                   97
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F4D11
                   (ESSAII project)
Seq. No.
                   141841
                  LIB3168-005-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3176874
BLAST score
                  597
E value
                   4.0e-62
Match length
                  115
                   98
% identity
NCBI Description
                   (AF065639) cucumisin-like serine protease [Arabidopsis
                  thaliana]
                   141842
Seq. No.
Seq. ID
                  LIB3168-005-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  g3063460
                  99
BLAST score
                  3.0e-30
E value
                  80
Match length
% identity
                   (AC003981) F22013.22 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141843
                  LIB3168-006-P1-K1-A1
Seq. ID
Method
                  BLASTX
```

g1628583

```
BLAST score
                    636
E value
                    1.0e-66
                    123
Match length
                    99
% identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    141844
                    LIB3168-006-P1-K1-A10
Seq. ID
Method
                    BLASTX
NCBI GI
                    q2129657
BLAST score
                    535
E value
                    1.0e-54
Match length
                    137
% identity
                    81
                    oleosin isoform - Arabidopsis thaliana
NCBI Description
                    >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                    [Arabidopsis thaliana]
Seq. No.
                    141845
Seq. ID
                    LIB3168-006-P1-K1-A11
Method
                    BLASTX
NCBI GI
                    q2129657
BLAST score
                    300
E value
                    3.0e-27
Match length
                    126
% identity
                    54
NCBI Description
                    oleosin isoform - Arabidopsis thaliana
                    >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                    [Arabidopsis thaliana]
Seq. No.
                    141846
                    LIB3168-006-P1-K1-A12
Seq. ID
Method
                    BLASTX
NCBI GI
                    g1628583
BLAST score
                    625
E value
                    3.0e-65
Match length
                    120
% identity
                    100
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    141847
                    LIB3168-006-P1-K1-A2
Seq. ID
                    BLASTX
Method
NCBI GI
                    q112682
BLAST score
                    676
E value
                    3.0e-71
                    138
Match length
                    91
% identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
```

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis

NCBI GI

BLAST score

q112682

```
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed storage protein [Arabidopsis thaliana]
```

```
141848
Seq. No.
                   LIB3168-006-P1-K1-A3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   386
E value
                   3.0e-37
Match length
                   96
                   79
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141849
                   LIB3168-006-P1-K1-A4
Seq. ID
Method
                  BLASTN-
NCBI GI
                   g3482964
BLAST score
                   191
E value
                   1.0e-103
Match length
                   374
% identity
                  .98
NCBI Description
                  Arabidopsis thaliana DNA chromosome 2, BAC clone F13D4
                   (ESSAII project)
Seq. No.
                   141850
                   LIB3168-006-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                   g1628583
BLAST score
                   645
E value
                   1.0e-67
Match length
                   146
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                                                                          £. - .
                   141851
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-A6
Method
                  BLASTX
NCBI GI
                   g112681
BLAST score
                   696
                   1.0e-73
E value
                  142
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   141852
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-A8
                  BLASTX
Method
```

```
7.0e-54
E value
                  117
Match length
                  85
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141853
Seq. ID
                  LIB3168-006-P1-K1-A9
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  705
E value
                  9.0e-75
Match length
                  134
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_ S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141854
                  LIB3168-006-P1-K1-B10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4455276
BLAST score
                  505
E value
                  3.0e-51
Match length
                  117
% identity
                  (AL035527) peptide transporter-like protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  141855
                  LIB3168-006-P1-K1-B11
Seq. ID
Method
                  BLASTX -
NCBI GI
                  q1628583
BLAST score
                  216
E value
                  1.0e-17
Match length
                  45
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141856
Seq. ID
                  LIB3168-006-P1-K1-B12
Method
                  BLASTN
NCBI GI
                  q4490734
                  459
BLAST score
                  0.0e+00
E value
                  482
Match length
                  99
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone
                                                                      (ESSA
NCBI Description
```

project)

```
Seq. No.
                   141857
                   LIB3168-006-P1-K1-B2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4454026
BLAST score
                   390
                   9.0e-38
E value
                   90
Match length
% identity
                   82
                   (AL035394) phosphatase like protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   141858
Seq. ID
                  LIB3168-006-P1-K1-B3
Method
                   BLASTX
NCBI GI
                   g3080400
BLAST score
                   576
E value
                   1.0e-60
Match length
                   150
                   82
% identity
NCBI Description
                   (AL022603) putative protein [Arabidopsis thaliana]
                   >gi 4455264_emb_CAB36800.1_ (AL035527) putative protein
                   [Arabidopsis thaliana]
                  141859
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-B4
Method
                  BLASTX
NCBI GI
                  g2887500
BLAST score
                  294
E value
                  2.0e-26
Match length
                   61
                  87
% identity
                   (AC002339) putative AP2 domain-containing protein
NCBI Description
                   [Arabidopsis thaliana]
                  141860
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-B5
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  667
E value
                  3.0e-70
                  129
Match length
                  98
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141861
Seq. ID
                  LIB3168-006-P1-K1-B8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  642
                  3.0e-67
E value
Match length
                  123
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                   141862
                   LIB3168-006-P1-K1-B9
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2182289
                   59
BLAST score
                   2.0e-24
E value
                   358
Match length
% identity
                   89
NCBI Description
                   Arabidopsis thaliana chromosome I BAC F11P17 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   LIB3168-006-P1-K1-C1
Seq. ID
Method
                   BLASTN
NCBI GI
                   q2264311
BLAST score
                   98
E value
                   1.0e-47
Match length
                   428
                   87
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MLN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141864
                   LIB3168-006-P1-K1-C10
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112682
BLAST score
                   614
E value
                   4.0e-64
Match length
                   129
% identity
                   91
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   141865
                   LIB3168-006-P1-K1-C12
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   625
E value
                   2.0e-65
Match length
                   120
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141866
                   LIB3168-006-P1-K1-C2
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112737
BLAST score
                   715
                   9.0e-76
E value
                   164
Match length
                   84
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
```

```
PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
>gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
precursor [Arabidopsis thaliana]
```

 Seq. No.
 141867

 Seq. ID
 LIB3168-006-P1-K1-C3

 Method
 BLASTX

 NCBI GI
 g2129657

 BLAST score
 596

 E value
 7.0e-62

 Match length
 156

81

NCBI Description oleosin isoform - Arabidopsis thaliana

>gi\_987014\_emb\_CAA90877\_ (Z54164) oleosin [Arabidopsis
thaliana] >gi\_987016\_emb\_CAA90878\_ (Z54165) oleosin

[Arabidopsis thaliana]

Seq. No. 141868

% identity

Seq. ID LIB3168-006-P1-K1-C4

Method BLASTX
NCBI GI g1628583
BLAST score 525
E value 1.0e-53
Match length 133
% identity 78

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 141869

Seq. ID LIB3168-006-P1-K1-C5

Method BLASTX
NCBI GI g112681
BLAST score 783
E value 7.0e-84
Match length 148
% identity 99

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir \$08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi\_808936 emb\_CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 141870

Seq. ID LIB3168-006-P1-K1-C6

Method BLASTX
NCBI GI g1628583
BLAST score 642
E value 3.0e-68
Match length 133
% identity 99

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. ID

```
Seq. No.
                   141871
Seq. ID
                   LIB3168-006-P1-K1-C7
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   411
E value
                   4.0e-40
Match length
                   117
                   72
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141872
Seq. ID
                   LIB3168-006-P1-K1-C8
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   571
E value
                   5.0e-59
                   137
Match length
                   81
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   141873
Seq. ID
                   LIB3168-006-P1-K1-C9
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   650
E value 💀
                   3.0e-68
Match length
                   159
                   81
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   141874
Seq. ID
                   LIB3168-006-P1-K1-D1
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   521
E value
                   3.0e-53
                   110
Match length
                   91
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   141875
Seq. No.
```

LIB3168-006-P1-K1-D10

E value

5.0e-34

```
Method
                      BLASTX
NCBI GI
                      q1628583
BLAST score
                      642
E value
                      3.0e-67
Match length
                      123
                      100
% identity
                      (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                      thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                      cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                      141876
                      LIB3168-006-P1-K1-D11
Seq. ID
Method
                      BLASTX
NCBI GI
                      q119143
BLAST score
                      766
                      9.0e-82
E value
Match length
                      149
                      99
% identity
                      ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
NCBI Description
                      >gi_81606_pir__S06724 translation elongation factor eEF-1
alpha chain - Arabidopsis thaliana >gi_295788_emb_CAA34453_
                      (X16430) elongation factor 1-alpha [Arabidopsis thaliana]
                      >gi_1369927_emb_CAA34454_ (X16431) elongation factor
1-alpha [Arabidopsis thaliana] >gi_1369928_emb_CAA34455_
(X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                      >gi_1532172 (U63815) EF-lalpha-A1 [Arabidopsis thaliana]
>gi_1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                      >gi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
                      141877
Seq. No.
Seq. ID
                      LIB3168-006-P1-K1-D12
Method
                      BLASTX
NCBI GI
                      q4406820
BLAST score
                      453
E value
                      3.0e-45
Match length
                      86
% identity
                      (AC006201) putative ras superfamily member [Arabidopsis
NCBI Description
                      thaliana]
Seq. No.
                      141878
                      LIB3168-006-P1-K1-D2
Seq. ID
Method
                      BLASTN
NCBI GI
                      g4589411
BLAST score
                      71
E value
                      2.0e-31
Match length
                      209
% identity
                      Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                      F5H8, complete sequence
Seq. No.
                      141879
                      LIB3168-006-P1-K1-D3
Seq. ID
Method
                      BLASTX
NCBI GI
                      q1628583
BLAST score
                      358
```

```
Match length
                  89
% identity
                  79
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141880
Seq. No.
                  LIB3168-006-P1-K1-D5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  661
                  2.0e-69
E value
Match length
                  153
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141881
Seq. No.
                  LIB3168-006-P1-K1-D6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  568
                  2.0e-58
E value
Match length
                  140
                  79
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141882
Seq. No.
                  LIB3168-006-P1-K1-D7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  693
E value
                  3.0e-73
                  157
Match length
                  83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_ S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141883
                  LIB3168-006-P1-K1-D8
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112741
BLAST score
                  866
E value
                  2.0e-93
```

2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit

164

98

Match length

NCBI Description

% identity

```
>gi 4490712 emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
                   141884
Seq. No.
                   LIB3168-006-P1-K1-D9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1531762
                   195 ·
BLAST score
E value
                   8.0e-15
Match length
                   51
% identity
NCBI Description
                    (Y07765) S-adenosylmethionine decarboxylase [Arabidopsis
                   thaliana]
Seq. No.
                   141885
Seq. ID
                   LIB3168-006-P1-K1-E1
Method
                   BLASTX
NCBI GI
                   g131332
                   307
BLAST score
                    5.0e-28
E value
                   70
Match length
% identity
NCBI Description
                   PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >qi 72716 pir F2RZOP
                   .photosystem II phosphoprotein psbH - rice chloroplast
                   >gi 11953_emb_CAA31204_ (X12695) 10 kD phosphoprotein (AA 1 - 73) [Oryza sativa] >gi_12016_emb_CAA33976_ (X15901) PSII
                   10kDa phosphoprotein [Oryza sativa]
                   >gi_226635_prf__1603356BJ photosystem II 10kD
phosphoprotein [Oryza sativa]
Seq. No.
                   141886
                   LIB3168-006-P1-K1-E10
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
                   625
BLAST score
E value
                   3.0e-65
Match length
                   120
                   100
% identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141887
                   LIB3168-006-P1-K1-E11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g114330
BLAST score
                   530
                   4.0e-54
E value
Match length
                   142
% identity
                   PLASMA MEMBRANE ATPASE 1 (PROTON PUMP)
NCBI Description
                   >gi 67972 pir PXMUP1 H+-transporting ATPase (EC 3.6.1.35)
                   type 1, plasma membrane - Arabidopsis thaliana >gi_166746
                   (M24107) plasma membrane proton pump H+ ATPase [Arabidopsis
                   thaliana]
```

3 precursor [Arabidopsis thaliana] >gi\_395201 emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

% identity

```
141888
Seq. No.
Seq. ID
                   LIB3168-006-P1-K1-E2
Method
                   BLASTN
NCBI GI
                   g4753645
BLAST score
                   114
E value
                   1.0e-57
Match length
                   152
% identity
                   92
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F17N18
                   (ESSA project)
                   141889
Seq. No.
Seq. ID
                   LIB3168-006-P1-K1-E3
Method
                   BLASTN
NCBI GI
                   a2842474
BLAST score
                   138
                   4.0e-72
E value
Match length
                   138
% identity
                   100
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                   (ESSAII project)
Seq. No.
                   141890
                   LIB3168-006-P1-K1-E4
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1791307
BLAST score
                   710
E value
                   1.0e-77
Match length
                   156
% identity
                   (U83501) permease homolog [Arabidopsis thaliana]
NCBI Description
                   141891
Seq. No.
Seq. ID
                   LIB3168-006-P1-K1-E5
Method
                   BLASTX
NCBI GI
                   q112737
BLAST score
                   545
E value
                   5.0e-56
Match length
                   135
                   79
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   141892
                   LIB3168-006-P1-K1-E6
Seq. ID
Method
                   BLASTX
NCBI GI
                   q2088652
BLAST score
                   716
                   6.0e-76
E value
Match length
                   150
```

```
(AF002109) 26S proteasome regulatory subunit S12 isolog
NCBI Description
                   [Arabidopsis thaliana] >gi 2351376 (U54561) translation
                  initiation factor eIF2 p47 subunit homolog [Arabidopsis
                  thaliana]
                  141893
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-E7
Method
                  BLASTX
NCBI GI
                  q3540206
BLAST score
                  191
                  2.0e-14
E value
                  104
Match length
                  18
% identity
                  (AC004260) Hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  141894
                  LIB3168-006-P1-K1-E8
Seq. ID
                  BLASTX
Method
                  g3367515
NCBI GI
BLAST score
                  491
                  1.0e-49
E value
Match length
                  103
                  92
% identity
                   (AC004392) Similar to
NCBI Description
                  glucose-6-phosphate/phosphate-translocator (GPT)
                  gb AF020814 from Pisum sativum. [Arabidopsis thaliana]
Seq. No.
                  141895
Seq. ID
                  LIB3168-006-P1-K1-E9
Method
                  BLASTX
NCBI GI
                  g3335169
BLAST score
                  907
                  3.0e-98
E value
Match length
                  169
% identity
                  99
                   (AF067857) embryo-specific protein 1 [Arabidopsis thaliana]
NCBI Description
                  >gi_4455197_emb_CAB36520.1_ (AL035440) embryo-specific
                  protein 1 (ATS1) [Arabidopsis thaliana]
Seq. No.
                  141896
Seq. ID
                  LIB3168-006-P1-K1-F1
Method
                  BLASTN
NCBI GI
                  g2828182
BLAST score
                  397
E value
                  0.0e + 00
Match length
                  397
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MOJ9, complete sequence [Arabidopsis thaliana]
Seq. No.
                  141897
                  LIB3168-006-P1-K1-F11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  748
E value
                  1.0e-79
Match length
                  161
```

```
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   141898
                   LIB3168-006-P1-K1-F12
Seq. ID
                   BLASTN
Method
NCBI GI
                   g3128140
                   219
BLAST score
E value
                   1.0e-120
                   438
Match length
                   99
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MJE4, complete sequence [Arabidopsis thaliana]
Seq. No.
                   141899
                   LIB3168-006-P1-K1-F2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1169476
BLAST score
                   613
E value
                   6.0e-64
Match length
                   117
                   100
% identity
                   ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
NCBI Description
                   ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632)
                   vitronectin-like adhesion protein [Nicotiana tabacum]
Seq. No.
                   141900
                   LIB3168-006-P1-K1-F3
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3402745
BLAST score
                   265
E value
                   1.0e-147
Match length
                   269
% identity
                   100
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F18E5
NCBI Description
                   (ESSAII project)
                   141901
Seq. No.
                   LIB3168-006-P1-K1-F4
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   799
E value
                   1.0e-85
Match length
                   165
                   92
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   141902
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-F5
```

NCBI GI

BLAST score

g629528



```
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                  667
                   3.0e-70
E value
                   141
Match length
% identity
                   91
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   141903
Seq. No.
Seq. ID
                   LIB3168-006-P1-K1-F6
Method
                   BLASTX
NCBI GI
                   g231536
BLAST score
                   344
                   2.0e-32
E value
                   105
Match length
                   67
% identity
                  CYTOSOL AMINOPEPTIDASE (LEUCINE AMINOPEPTIDASE) (LAP).
NCBI Description
                   (LEUCYL AMINOPEPTIDASE) (PROLINE AMINOPEPTIDASE) (PROLYL
                   AMINOPEPTIDASE) >gi 99683 pir S22399 leucyl aminopeptidase
                   (EC 3.4.11.1) - Arabidopsis thaliana
                   >gi_16394_emb_CAA45040_ (X63444) leucine aminopeptidase
[Arabidopsis thaliana] >gi_4115380 (AC005967) putative
                   leucine aminopeptidase [Arabidopsis thaliana]
                   141904
Seq. No.
                   LIB3168-006-P1-K1-F7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4490339
BLAST score
                   86
E value
                   3.0e-14
Match length
                   141
% identity
                   45
NCBI Description (AL035656) putative protein [Arabidopsis thaliana]
Seq. No.
                   141905
                   LIB3168-006-P1-K1-F8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112741 .
BLAST score
                   846
                   4.0e-91
E value
                   160
Match length
                   98
% identity
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  141906
Seq. No.
                  LIB3168-006-P1-K1-F9
Seq. ID
Method
                  BLASTX
```

```
E value
                    4.0e-56
 Match length
                    116
 % identity
 NCBI Description
                    hypothetical protein - Arabidopsis thaliana
                    >gi_1076335_pir__S51580 hypothetical protein 1 -
                    Arabidopsis thaliana >gi 499167_emb_CAA56144_ (X79707) ORF
                    [Arabidopsis thaliana]
                    141907
 Seq. No.
 Seq. ID
                    LIB3168-006-P1-K1-G1
 Method
                    BLASTX
 NCBI GI
                    g4220477
 BLAST score
                    521
 E value
                    3.0e-53
 Match length
                    104
                    100
 % identity
                    (AC006069) unknown protein [Arabidopsis thaliana]
 NCBI Description
 Seq. No.
                    141908
 Seq. ID
                    LIB3168-006-P1-K1-G10
 Method
                    BLASTX
 NCBI GI
                    g231536
 BLAST score
                    714
                    1.0e-75
 E value
Match length
                    166
                   89
 % identity
                    CYTOSOL AMINOPEPTIDASE (LEUCINE AMINOPEPTIDASE) (LAP)
 NCBI Description
                    (LEUCYL AMINOPEPTIDASE) (PROLINE AMINOPEPTIDASE) (PROLYL
                    AMINOPEPTIDASE) > gi 99683 pir S22399 leucyl aminopeptidase
                    (EC 3.4.11.1) - Arabidopsis thaliana
                   >gi_16394_emb_CAA45040_ (X63444) leucine aminopeptidase
[Arabidopsis thaliana] >gi_4115380 (AC005967) putative
                    leucine aminopeptidase [Arabidopsis thaliana]
 Seq. No.
                    141909
Seq. ID
                    LIB3168-006-P1-K1-G11
Method
                    BLASTX
NCBI GI
                    q1628583
BLAST score
                    408
E value
                    1.0e-39
Match length
                    78
 % identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    141910
Seq. No.
Seq. ID
                    LIB3168-006-P1-K1-G2
Method
                   BLASTX
NCBI GI
                    q4204298
BLAST score
                    634
                    2.0e-66
E value
Match length
                   157
                    80 -
% identity
                    (AC003027) lcl_prt_seq No definition line found
NCBI Description
```

[Arabidopsis thaliana]

```
Seq. No.
                  141911
                  LIB3168-006-P1-K1-G3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g633890
BLAST score
                  422
                  2.0e-41
E value
Match length
                  146
% identity
                  60
                  (S72926) glucose and ribitol dehydrogenase homolog [Hordeum
NCBI Description
                  vulgare]
                  141912
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-G4
Method
                  BLASTX
NCBI GI
                  q4432839
BLAST score
                  664
                  8.0e-70
E value
                  130
Match length
% identity
                  98
NCBI Description (AC006283) unknown protein [Arabidopsis thaliana]
Seq. No.
                  141913
                  LIB3168-006-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3157930
BLAST score
                  707
                  7.0e-75
E value
Match length
                  152
% identity
                  91
NCBI Description
                  (AC002131) Strong similarity to
                  amino-cyclopropane-carboxylic acid oxidase gb L27664 from
                  Brassica napus. ESTs gb_Z48548 and gb_Z48549 come from
                  this gene. [Arabidopsis thaliana]
Seq. No.
                  141914
                  LIB3168-0.06-P1-K1-G6
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112681
                  643
BLAST score
E value
                  2.0e-67
                  170
Match length
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141915
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  685
                  3.0e-72
E value
Match length
                  139
% identity
                  91
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
```

BLAST score

E value

48

6.0e-18

```
cruciferin precursor (CRB) - Arabidopsis thaliana
>gi_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed storage protein [Arabidopsis thaliana]
```

```
Seq. No.
                  141916
                  LIB3168-006-P1-K1-G9
Seq. ID
Method
                  BLASTX
                  q4586249
NCBI GI
BLAST score
                  369
                  2.0e-35
E value
Match length
                  119
% identity
                   (AL049640) putative pollen surface protein [Arabidopsis
NCBI Description
                  thaliana]
                  141917
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-H1
                  BLASTX
Method
NCBI GI
                  g1628583
                  394
BLAST score
                  3.0e-38
E value
                  97
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141918
                  LIB3168-006-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  635
BLAST score
E value
                  2.0e-66
                  123
Match length
                  99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141919
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-H11
Method
                  BLASTN
NCBI GI
                  q4757399
BLAST score
                  163
                  1.0e-86
E value
Match length
                  355
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MEE13, complete sequence
                  141920
Seq. No.
                  LIB3168-006-P1-K1-H12
Seq. ID
Method
                  BLASTN
NCBI GI
                  q16231
```

Match length

```
Match length
                  120
% identity
                  92
                  Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                  >gi 166675 gb M37247 ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  141921
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-H2
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  571
                  5.0e-59
E value
                  149
Match length
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141922
Seq. No.
Seq. ID
                  LIB3168-006-P1-K1-H5
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  651
E value
                  1.0e-69
Match length
                  146
% identity
                  91
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  141923
Seq. No.
                  LIB3168-006-P1-K1-H6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  655
E value
                  9.0e-69
Match length
                  166
% identity
                  81
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{1}iana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141924
Seq. No.
                  LIB3168-006-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI ·
                  q112682
BLAST score
                  175
E value
                  7.0e-15
```

Seq. No.

```
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81605 pir __S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   141925
Seq. ID
                   LIB3168-006-P1-K1-H8
Method
                   BLASTX
NCBI GI
                   g2827635
BLAST score
                   639
                   6.0e-67
E value
Match length
                   138
% identity
                   93
                   (AL021636) predicted protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   141926
                   LIB3168-006-P1-K1-H9
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   620
E value
                   8.0e-65
Match length
                   119
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141927
Seq. ID
                   LIB3168-007-P1-K1-A1
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   679
E value
                   1.0e-71
Match length
                   142
                   89
% identity •
NCBI Description
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   141928
Seq. ID
                   LIB3168-007-P1-K1-A11
Method
                   BLASTN
NCBI GI
                   q3869075
BLAST score
                   371
E value
                   0.0e + 00
Match length
                   379
                   100
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MXK3, complete sequence [Arabidopsis thaliana]
```

```
LIB3168-007-P1-K1-A12
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2894604
BLAST score
                  369
                  3.0e-35
E value
                  92
Match length
% identity
NCBI Description
                  (AL021889) putative protein [Arabidopsis thaliana]
                  141930
Seq. No.
                  LIB3168-007-P1-K1-A2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  423
E value
                  2.0e-41
Match length
                  107
% identity
                  82
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141931
                  LIB3168-007-P1-K1-A3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  136
                  2.0e-70
E value
Match length
                  285
% identity
                  61
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                  (ESSAII project)
Seq. No.
                  141932
                  LIB3168-007-P1-K1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  666
                  5.0e-70
E value
                  167
Match length
% identity
                  80
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141933
Seq. No.
Seq. ID
                  LIB3168-007-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  g112737
                  755
BLAST score
                  2.0e-80
E value
Match length
                  153
                  92
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
```

E value

3.0e-36

```
precursor [Arabidopsis thaliana]
Seq. No.
                   141934
Seq. ID
                   LIB3168-007-P1-K1-A7
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   221
E value
                   3.0e-18
Match length
                   49
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141935
                   LIB3168-007-P1-K1-A8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   713
E value
                   1.0e-75
Match length
                   160
% identity
                   84
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   141936
                   LIB3168-007-P1-K1-A9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   728
E value
                   3.0e-77
Match length
                   175
% identity
                   83
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141937
                   LIB3168-007-P1-K1-B10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1332579
BLAST score
                   445
E value
                   2.0e-44
                   108
Match length
                   9
% identity
                   (X98063) polyubiquitin [Pinus sylvestris]
NCBI Description
Seq. No.
                   141938
                   LIB3168-007-P1-K1-B11
Seq. ID
Method
                   BLASTX
                   g2129657
NCBI GI
BLAST score
                   377
```

>qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1

```
Match length
                   105
                   76
% identity
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi 987014 emb CAA90877 (Z54164) oleosin [Arabidopsis
                   thaliana] >gi 987016 emb CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   141939
Seq. ID
                   LIB3168-007-P1-K1-B2
Method
                   BLASTN
NCBI GI
                   g4589428
BLAST score
                   365
E value
                   0.0e + 00
Match length
                   453
                   95
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MFH8, complete sequence
Seq. No.
                   141940
                   LIB3168-007-P1-K1-B4
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2129657
                   545
BLAST score
E value
                   8.0e-56
                   140
Match length
                   81
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
                   141941
Seq. No.
Seq. ID
                   LIB3168-007-P1-K1-B5
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   158
E value
                   5.0e-11
Match length
                   47
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   141942
Seq. ID
                   LIB3168-007-P1-K1-B6
Method
                   BLASTX
NCBI GI
                   g113026
BLAST score
                   638
E value
                   7.0e-67
Match length
                   127
% identity
                   95
                   ISOCITRATE LYASE (ISOCITRASE) (ISOCITRATASE) (ICL)
NCBI Description
                   >gi 68211 pir WZRPI isocitrate lyase (EC 4.1.3.1) - rape
                   >gi 255220 bbs 112862 isocitrate lyase, threo-D
                   S-isocitrate glyoxylate-lyase, IL {EC 4.1.3.1} [Brassica
                   napus, seedlings, Peptide, 576 aa] >gi 167144 (L08482)
                   isocitrate lyase [Brassica napus] >gi 447142 prf 1913424A
```

## isocitrate lyase [Brassica napus]

```
Seq. No.
                  141943
                  LIB3168-007-P1-K1-B7
Seq. ID
                  BLASTN
Method
NCBI GI
                  g3309276
BLAST score
                  203
E value
                  1.0e-110
Match length
                  414
                  99
% identity
                  Arabidopsis thaliana BAC T26N6 from chromosome IV at 19.3
NCBI Description
                  cM, complete sequence
Seq. No.
                  141944
                  LIB3168-007-P1-K1-B8
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4204298
                  233
BLAST score
E value
                  2.0e-19
                  109
Match length
% identity
                  49
NCBI Description
                   (AC003027) lcl prt seq No definition line found
                   [Arabidopsis thaliana]
Seq. No.
                  141945
                  LIB3168-007-P1-K1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  581
E value
                  3.0e-60
                  107
Match length
                  100
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir_ S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141946
Seq. ID
                  LIB3168-007-P1-K1-C10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  642
                  3.0e-67
E value
Match length
                  123
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141947
Seq. No.
                  LIB3168-007-P1-K1-C11
Seq. ID
                  BLASTX
Method
                  g112737
NCBI GI
                  715
BLAST score
E value
                  9.0e-76
                  164
Match length
```

```
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68853_pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                   141948
Seq. ID
                  LIB3168-007-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  596
E value
                   6.0e-62
Match length
                  141
% identity
                   81
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141949
Seq. ID
                  LIB3168-007-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  450
E value
                   1.0e-44
                  103
Match length
% identity
                   98
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141950
Seq. ID
                  LIB3168-007-P1-K1-C4
Method
                  BLASTN
NCBI GI
                  q4454004
BLAST score
                  42
E value
                  3.0e-15
Match length
                  63
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F24A6
                   (ESSAII project)
Seq. No.
                  141951
                  LIB3168-007-P1-K1-C5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  466
E value
                  1.0e-46
Match length
                  105
                  85
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
```

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis

```
storage protein [Arabidopsis thaliana]
Seq. No.
                  141952
                  LIB3168-007-P1-K1-C6
Seq. ID
                  BLASTX
Method
                  q4510362
NCBI GI
                  110
BLAST score
E value
                  7.0e-50
                  106
Match length
% identity
                   (AC007017) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  141953
Seq. No.
                  LIB3168-007-P1-K1-C7
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  223
                  2.0e-43
E value
                  123
Match length
                  77
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141954
Seq. No.
Seq. ID
                  LIB3168-007-P1-K1-C8
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  796
E value
                  3.0e-85
Match length
                  164
                  93
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141955
                  LIB3168-007-P1-K1-C9
Seq. ID
Method
                  BLASTX
                  g2129767
NCBI GI
BLAST score
                  73
E value
                  5.0e-41
Match length
                  131
                  65
% identity
                  vacuolar processing enzyme (EC 3.4.22.-) isozyme beta
NCBI Description
                  precursor - Arabidopsis thaliana >gi_1805364 dbj_BAA09615
                   (D61394) beta-VPE [Arabidopsis thaliana]
Seq. No.
                  141956
                  LIB3168-007-P1-K1-D1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  3.0e-65
E value
Match length
                  120
```

thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

100

% identity

Method

BLASTX

```
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141957
Seq. No.
Seq. ID
                  LIB3168-007-P1-K1-D10
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  648
                  5.0e-68
E value
Match length
                  150
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141958
Seq. No.
                  LIB3168-007-P1-K1-D11
Seq. ID
Method `
                  BLASTX
NCBI GI
                  g3367534
BLAST score
                  824
                  1.0e-88
E value
Match length
                  165
% identity
                   (AC004392) Strong similarity to coatamer alpha subunit
NCBI Description
                   (HEPCOP) homolog gb U24105 from Homo sapiens. [Arabidopsis
                  thaliana]
Seq. No.
                  141959
                  LIB3168-007-P1-K1-D12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g456568
BLAST score
                  697
E value
                  1.0e-73
Match length
                  141
                  89
% identity
                  (L29077) ubiquitin conjugating enzyme [Pisum sativum]
NCBI Description
                  141960
Seq. No.
                  LIB3168-007-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
                  724
BLAST score
                  8.0e-77
E value
                  164
Match length
% identity
                  84
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  141961
Seq. No.
                  LIB3168-007-P1-K1-D3
Seq. ID
```

```
NCBI GI
                  q112682
BLAST score
                  775
                  8.0e-83
E value
Match length
                  171
                  86
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141962
Seq. No.
                  LIB3168-007-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  642
                               . . .
                  3.0e-67
E value
                  123
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141963
                  LIB3168-007-P1-K1-D5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  705
                  1.0e-74
E value
Match length
                  160
                  83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  141964
Seq. No.
                  LIB3168-007-P1-K1-D6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  757
E value
                  1.0e-80
Match length
                  167
                  87
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141965
                  LIB3168-007-P1-K1-D7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  727
                  3.0e-77
E value
```

NCBI Description

```
164
Match length
                  84
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  141966
Seq. No.
                  LIB3168-007-P1-K1-D8
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  841
                  1.0e-90
E value
Match length
                  173
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141967
                  LIB3168-007-P1-K1-D9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  622
E value
                  6.0e-65
Match length
                  145
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141968
                  LIB3168-007-P1-K1-E10
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3228389
BLAST score
                  378
                  0.0e + 00
E value
                  402
Match length
                  99
% identity
                  Genomic sequence for Arabidopsis thaliana BAC F17L21,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  141969
                  LIB3168-007-P1-K1-E11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  594
E value
                  1.0e-61
Match length
                  144
% identity
                  81
```

12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

```
>gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
storage protein [Arabidopsis thaliana]
```

```
141970
 Seq. No.
 Seq. ID
                    LIB3168-007-P1-K1-E12
 Method
                    BLASTX
 NCBI GI
                    g112739
 BLAST score
                    286
 E value
                    4.0e-26
                    70
 Match length
                    79
 % identity
                    2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
 NCBI Description
                    PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                    Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                    2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                    (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                    >gi 4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                    precursor [Arabidopsis thaliana]
                    141971
 Seq. No.
                   LIB3168-007-P1-K1-E2
 Seq. ID
 Method
                    BLASTN
 NCBI GI
                    g2477521
 BLAST score
                    386
                    0.0e + 00
 E value
                    386
Match length
                    100
 % identity
                    Arabidopsis thaliana chromosome I BAC F22K2O genomic
 NCBI Description
                    sequence, complete sequence [Arabidopsis thaliana]
                    141972
 Seq. No.
                    LIB3168-007-P1-K1-E3
 Seq. ID
                    BLASTX
 Method
 NCBI GI
                    q1628583
 BLAST score
                    618
                    1.0e-64
 E value
                    120
 Match length
                    99
 % identity
 NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    141973
 Seq. No.
 Seq. ID
                   LIB3168-007-P1-K1-E4
                   BLASTX
 Method
 NCBI GI
                    q1628583
 BLAST score
                    635
                    2.0e-66
 E value
 Match length
                    123
```

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 141974

Seq. ID LIB3168-007-P1-K1-E5

99

% identity

```
Method
                   BLASTX
NCBI GI
                   g3915961
BLAST score
                   149
E value
                   4.0e-10
Match length
                   61
% identity
                   54
NCBI Description
                   HYPOTHETICAL 267 KD PROTEIN (ORF 2280)
                   >gi_2924274_emb_CAA77427_ (Z00044) Ycf2 protein [Nicotiana
tabacum] >gi_2924285_emb_CAA77438_ (Z00044) hypothetical
                   protein [Nicotiana tabacum]
                   141975
Seq. No.
Seq. ID
                   LIB3168-007-P1-K1-E6
                   BLASTX
Method
NCBI GI
                   g112681
                   763
BLAST score
                   2.0e-81
E value
Match length
                   152
                   99
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   141976
Seq. No.
                   LIB3168-007-P1-K1-E7
Seq. ID
                   BLASTX
Method
NCBI GI
                   g1628583
BLAST score
                   836
                   6.0e-90
E value
                   173
Match length
% identity
                   94
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   141977
Seq. No.
Seq. ID
                   LIB3168-007-P1-K1-E8
Method
                   BLASTX
                   g384341
NCBI GI
BLAST score
                   206
                   4.0e-16
E value
Match length
                   109
% identity
                   40
NCBI Description
                   major storage protein [Theobroma cacao]
                   141978
Seq. No.
Seq. ID
                   LIB3168-007-P1-K1-F1
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   655
                   8.0e-69
E value
Match length
                   150
% identity
                   85
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
```

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed
storage protein [Arabidopsis thaliana]

Seq. No. 141979

Seq. ID LIB3168-007-P1-K1-F10

Method BLASTX
NCBI GI g112682
BLAST score 556
E value 3.0e-57
Match length 131
% identity 81

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_ S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 141980

Seq. ID LIB3168-007-P1-K1-F11

Method BLASTX
NCBI GI g112741
BLAST score 887
E value 6.0e-96
Match length 164
% identity 99

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit

3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 141981

Seq. ID LIB3168-007-P1-K1-F3

Method BLASTX
NCBI GI g1628583
BLAST score 364
E value 8.0e-35
Match length 67
% identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 141982

Seq. ID LIB3168-007-P1-K1-F4

Method BLASTX
NCBI GI g1628583
BLAST score 736
E value 2.0e-78
Match length 145
% identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                   141983
Seq. ID
                  LIB3168-007-P1-K1-F5
                  BLASTN
Method
NCBI GI
                  g2583106
BLAST score
                  185
E value
                   1.0e-99
Match length
                  270
                   73
% identity
                  Arabidopsis thaliana chromosome II BAC F4L23 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   141984
Seq. No.
Seq. ID
                  LIB3168-007-P1-K1-F6
Method
                  BLASTX
NCBI GI
                   g1170373
BLAST score
                   682
                   6.0e-72
E value
Match length
                   133
                   99
% identity
                  HEAT SHOCK COGNATE 70 KD PROTEIN 1 >gi_1072473 pir_ S46302
NCBI Description
                  heat shock cognate protein 70-1 - Arabidopsis thaliana
                  >gi_397482_emb_CAA52684_ (X74604) heat shock protein 70
                  cognate [Arabidopsis thaliana]
Seq. No.
                  141985
                  LIB3168-007-P1-K1-F7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   620
                   1.0e-64
E value
                  119
Match length
                   100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141986
Seq. No.
                  LIB3168-007-P1-K1-F8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  769
E value.
                   3.0e-82
Match length
                  146
                  100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  141987
Seq. No.
                  LIB3168-007-P1-K1-F9
Seq. ID
Method
                  BLASTX
                  g112741
NCBI GI
BLAST score
                  461
E value
                  3.0e-46
Match length
                  102
                  85
% identity
```

```
NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                   141988
Seq. No.
Seq. ID
                  LIB3168-007-P1-K1-G10
Method
                  BLASTX
NCBI GI
                   g112737
BLAST score
                   588
                   5.0e-61
E value
Match length
                   140
                   81
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                   141989
Seq. No.
                  LIB3168-007-P1-K1-G11
Seq. ID
Method
                  BLASTX
NCBI GI
                   g2129657
                   509
BLAST score
                   1.0e-51
E value
                   131
Match length
                   81
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   141990
                   LIB3168-007-P1-K1-G12
Seq. ID
Method
                   BLASTX
                   q1619602
NCBI GI
                   385
BLAST score
E value
                  3.0e-37
                   96
Match length
                   75
% identity
NCBI Description (Y08726) MtN3 [Medicago truncatula]
                   141991
Seq. No.
                   LIB3168-007-P1-K1-G2
Seq. ID
Method
                   BLASTX
                   q4263704
NCBI GI
BLAST score
                   262
                   6.0e-23
E value
Match length
                   86
% identity
                   56
                   (AC006223) putative sugar starvation-induced protein
NCBI Description
```

[Arabidopsis thaliana]

```
Seq. No.
                  141992
Seq. ID
                 LIB3168-007-P1-K1-G3
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  624
E value
                  3.0e-65
                  129
Match length
% identity
                  89
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  141993
Seq. ID
                  LIB3168-007-P1-K1-G4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  769
E value
                  4.0e-82
Match length
                  159
                  94
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141994
Seq. ID
                  LIB3168-007-P1-K1-G5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  561
E value
                  1.0e-57
Match length
                  118
                  93
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  141995
Seq. ID
                  LIB3168-007-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  626
E value
                  2.0e-65
Match length
                  143
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  141996
Seq. ID
                  LIB3168-007-P1-K1-G9
```

NCBI GI

```
Method
                   BLASTX
NCBI GI
                   q3142289
BLAST score
                   430
E value
                   2.0e-42
Match length
                   126
% identity
                   67
                   (AC002411) Strong similarity to beta-keto-Coa synthase
NCBI Description
                   qb U37088 from Simmondsia chinensis. [Arabidopsis thaliana]
Seq. No.
                                                  .
                  LIB3168-007-P1-K1-H1
Seq. ID
Method
                  BLASTX
NCBI GI
                   q1531762
BLAST score
                  197
E value
                   2.0e-15
Match length
                   44
% identity
NCBI Description
                   (Y07765) S-adenosylmethionine decarboxylase [Arabidopsis
                   thaliana]
Seq. No.
                   141998
Seq. ID
                  LIB3168-007-P1-K1-H10
Method
                  BLASTX
NCBI GI
                  q1773330
BLAST score
                   489
E value
                   2.0e-49
Match length
                  109
% identity
                   (U80071) glycolate oxidase [Mesembryanthemum crystallinum]
NCBI Description
Seq. No.
                   141999
                  LIB3168-007-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                   q4704766
BLAST score
                  405
E value
                   1.0e-39
Match length
                  115
% identity
                   (AF131223) protein disulfide isomerase homolog; PDI
NCBI Description
                   [Datisca glomerata]
Seq. No.
                   142000
Seq. ID
                  LIB3168-007-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  537
E value
                   3.0e-55
Match length
                  104
                  99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142001
Seq. ID
                  LIB3168-007-P1-K1-H3
Method
                  BLASTX
```

q1628583

```
BLAST score
                  321
                  1.0e-29
E value
                  61
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142002
                  LIB3168-007-P1-K1-H4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2129545
                  733
BLAST score
                  6.0e-78
E value
                  136
Match length
                  99
% identity
                  beta-glucanase - Arabidopsis thaliana (fragment) >gi 600857
NCBI Description
                  (U17888) beta-glucanase [Arabidopsis thaliana]
                  142003
Seq. No.
Seq. ID
                  LIB3168-007-P1-K1-H5
Method
                  BLASTX
NCBI GI
                  q1709007
BLAST score
                  168
E value
                  1.0e-11
                  99
Match length
                  39
% identity
                  O-SUCCINYLHOMOSERINE SULFHYDRYLASE (OSH SULFHYDRYLASE)
NCBI Description
                  >gi 607830 (U10904) O-succinylhomoserine sulfhydrylase
                  [Pseudomonas aeruginosa]
                  142004
Seq. No.
Seq. ID
                  LIB3168-007-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  q112682
                  705
BLAST score
E value
                  1.0e-74
                  157
Match length
                  84
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142005
                  LIB3168-007-P1-K1-H8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4204299
BLAST score
                  788
E value
                  2.0e-84
Match length
                  168
                  90
% identity
                  (AC003027) lcl_prt_seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
```

100

142006

Seq. No.

NCBI GI

```
Seq. ID
                    LIB3168-007-P1-K1-H9
Method
                   BLASTX
NCBI GI
                    q112737
BLAST score
                    571
E value
                    5.0e-59
Match length
                    137
% identity
                    81
NCBI Description
                    2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                    PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204 emb_CAA80870_
                    (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                    >gi 4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                    precursor [Arabidopsis thaliana]
                    142007
Seq. No.
                   LIB3168-009-P1-K1-A1
Seq. ID
Method
                   BLASTX
NCBI GI
                    q131289
BLAST score
                    495
E value
                    5.0e-61
Match length
                   125
% identity
                    95
NCBI Description
                   PHOTOSYSTEM II 44 KD REACTION CENTRE PROTEIN (P6 PROTEIN)
                   (CP43) >gi_72709_pir__F2NT44 photosystem II chlorophyll a-binding protein psbC - common tobacco chloroplast
                    >gi_225285_prf__1211235W photosystem II 44kD protein
                    [Nicotiana tabacum]
                    142008
Seq. No.
Seq. ID
                   LIB3168-009-P1-K1-A10
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                    412
E value
                    2.0e-40
Match length
                    112
% identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    142009
                   LIB3168-009-P1-K1-A11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                    625
E value
                    3.0e-65
Match length
                   120
% identity
                   100
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142010
                   LIB3168-009-P1-K1-A12
Seq. ID
                   BLASTX
Method
```

q1628583

Seq. No.

142015

```
BLAST score
                  778
E value
                  3.0e-83
Match length
                  154
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142011
                  LIB3168-009-P1-K1-A3
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  621
E value
                  8.0e-65
                  120
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142012
Seq. No.
                  LIB3168-009-P1-K1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  444
                  4.0e-44
E value
                  89
Match length
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142013
Seq. ID
                  LIB3168-009-P1-K1-A6
Method
                  BLASTX
NCBI GI
                  g2605714
BLAST score
                  396
E value
                  2.0e-38
Match length
                  100
% identity
                  (AF026275) beta-tonoplast intrinsic protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  142014
                  LIB3168-009-P1-K1-A7
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4512656
BLAST score
                  150
E value
                  1.0e-78
Match length
                  384
                  85
% identity
                  Arabidopsis thaliana chromosome II BAC F7D19 genomic
NCBI Description
                  sequence, complete sequence
```

```
Seq. ID
                   LIB3168-009-P1-K1-A8
Method
                   BLASTX
NCBI GI
                   g112739
BLAST score
                   533
E value
                   2.0e-54
Match length
                   142
                   75
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68854_pir__NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
                   142016
Seq. No.
                   LIB3168-009-P1-K1-B1
Seq. ID
Method
                   BLASTX
                   q2246456
NCBI GI
BLAST score
                   750
E value
                   6.0e-80
                   141
Match length
                   99
% identity
NCBI Description
                   (U71400) S-adenosyl-methionine-sterol-C-methyltransferase
                   [Arabidopsis thaliana]
                   142017
Seq. No.
                   LIB3168-009-P1-K1-B12
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4204299
BLAST score
                   382
                   8.0e-37
E value
Match length
                   74
% identity
                   (AC003027) 1cl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
                   142018
Seq. No.
                   LIB3168-009-P1-K1-B2
Seq. ID
Method
                   BLASTN
NCBI GI
                   q16473
BLAST score
                   455
E value
                   0.0e + 00
Match length
                   463
                   100
% identity
NCBI Description
                   Arabidopsis thaliana 25S-18S ribosomal DNA spacer
Seq. No.
                   142019
Seq. ID
                   LIB3168-009-P1-K1-B3
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   635
E value
                   2.0e-66
Match length
                   148
% identity
                   82
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
```

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_(AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana]

 Seq. No.
 142020

 Seq. ID
 LIB3168-009-P1-K1-B5

 Method
 BLASTX

 NCBI GI
 g112681

 BLAST score
 811

 E value
 4.0e-87

 Match length
 153

99

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 142021

% identity

Seq. ID LIB3168-009-P1-K1-B6

Method BLASTX
NCBI GI g112681
BLAST score 698
E value 7.0e-74
Match length 141
% identity 94

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis ]

thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 142022

Seq. ID LIB3168-009-P1-K1-B7

Method BLASTX
NCBI GI g1531762
BLAST score 195
E value 7.0e-15
Match length 51
% identity 75

NCBI Description (Y07765) S-adenosylmethionine decarboxylase [Arabidopsis

thaliana]

Seq. No. 142023

Seq. ID LIB3168-009-P1-K1-B8

Method BLASTX
NCBI GI g112682
BLAST score 570
E value 1.0e-64
Match length 152
% identity 81

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

Seq. ID

Method

## storage protein [Arabidopsis thaliana]

```
Seq. No.
                  142024
Seq. ID
                  LIB3168-009-P1-K1-C1
Method
                  BLASTX
NCBI GI
                  g4455297
BLAST score
                  569
E value
                  1.0e-58
                  155
Match length
                  70
% identity
                  (AL035528) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  142025
Seq. No.
                  LIB3168-009-P1-K1-C10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  625
                  3.0e-65
E value
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142026
                  LIB3168-009-P1-K1-C11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112739
BLAST score
                  516
E value
                  2.0e-52
Match length
                  139
                  75
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142027
                  LIB3168-009-P1-K1-C12
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  619
E value
                  1.0e-64
                  131
Match length
                  91
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142028
Seq. No.
```

LIB3168-009-P1-K1-C2

BLASTX

```
NCBI GI
                  g1706749
BLAST score
                  615
E value
                   4.0e-64
Match length
                  124
                   99
% identity
NCBI Description
                  3-OXOACYL-[ACYL-CARRIER-PROTEIN] SYNTHASE I PRECURSOR
                   (BETA-KETOACYL-ACP SYNTHASE I) (KAS I) >gi 780814 (U24177)
                   3-ketoacyl-acyl carrier protein synthase I [Arabidopsis
                  thaliana]
                  142029
Seq. No.
Seq. ID
                  LIB3168-009-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                   680
                   9.0e-72
E value
Match length
                  153
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142030
Seq. ID
                  LIB3168-009-P1-K1-C4
Method
                  BLASTN
NCBI GI
                  g4755185
BLAST score
                  272
                  1.0e-151
E value
Match length
                  423
                  91
% identity
                  Arabidopsis thaliana chromosome II BAC F5G3 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  142031
Seq. ID
                  LIB3168-009-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  q4678285
BLAST score
                  385
E value
                  4.0e-37
Match length
                  109
% identity
                  62
                  (AL049660) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  142032
Seq. ID
                  LIB3168-009-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  537
E value
                  5.0e-55
Match length
                  143
                  76
% identity
                  2S' SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854 pir_NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
```

2 precursor [Arabidopsis thaliana] >gi 395205\_emb\_CAA80871\_

(Z24745) 2S albumin isoform 2 [Arabidopsis thaliana] >gi\_4490711 emb CAB38845.1\_ (AL035680) NWMU2-2S albumin 2 precursor [Arabidopsis thaliana]

142033 Seq. No. Seq. ID LIB3168-009-P1-K1-C8 Method BLASTX NCBI GI q1628583 BLAST score 420 3.0e-41 E value Match length 114

% identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

142034 Seq. No.

LIB3168-009-P1-K1-C9 Seq. ID

Method BLASTX NCBI GI g1628583 BLAST score 625 E value 3.0e-65 Match length 120 100 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

> thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

142035 Seq. No.

LIB3168-009-P1-K1-D10 Seq. ID

Method BLASTX NCBI GI g1628583 BLAST score 256 E value 5.0e-22 -Match length 89

% identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

142036 Seq. No.

Seq. ID LIB3168-009-P1-K1-D11

Method. BLASTX NCBI GI g1694976 459 BLAST score 7.0e-46 E value Match length 111 % identity

NCBI Description (Y09482) HMG1 [Arabidopsis thaliana]

>gi 2832361 emb CAA74402 (Y14073) HMG protein [Arabidopsis

thaliana]

Seq. No. 142037

LIB3168-009-P1-K1-D12 Seq. ID

BLASTX Method q1628583 NCBI GI BLAST score 627

Seq. No.

142042

```
E value
                  2.0e-65
Match length
                  154 .
% identity
                  81
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142038
Seq. ID
                  LIB3168-009-P1-K1-D2
Method
                  BLASTX
NCBI GI
                  g2982437
BLAST score
                  534
E value
                  1.0e-54
Match length
                  155
% identity
NCBI Description
                  (AL022224) terpene cyclase like protein [Arabidopsis
                  thaliana]
                  142039
Seq. No.
Seq. ID
                  LIB3168-009-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  669
E value
                  2.0e-70
Match length
                  152
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142040
Seq. ID
                  LIB3168-009-P1-K1-D6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  3.0e-67
Match length
                  123
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142041
Seq. ID
                  LIB3168-009-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
                  120
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

```
LIB3168-009-P1-K1-D8
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  623
E value
                  4.0e-65
Match length
                  153
                  81
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142043
Seq. No.
                  LIB3168-009-P1-K1-D9
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  802
                  5.0e-86
E value
                  153
Match length
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142044
                  LIB3168-009-P1-K1-E1
Seq. ID
                  BLASTX
Method
NCBI GI
                  q4204299
                   451
BLAST score
                   7.0e-45
E value
                  88
Match length
                   100
% identity
                   (AC003027) 1cl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
                   142045
Seq. No.
                  LIB3168-009-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI -
                   g1628583
                   625
BLAST score
E value
                   3.0e-65
Match length
                   120
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142046
Seq. No.
Seq. ID
                  LIB3168-009-P1-K1-E11
Method
                   BLASTX
                   g1109699
NCBI GI
BLAST score
                   650
                   3.0e-68
E value
Match length
                   124
% identity
                   (X83381) gibberellin 20-oxidase [Arabidopsis thaliana]
NCBI Description
```

142047

Seq. No.

```
LIB3168-009-P1-K1-E12
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3335356
BLAST score
                  432 -
E value
                  0.0e + 00
Match length
                  463
% identity
                  98
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F16M14 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142048
                  LIB3168-009-P1-K1-E2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  542
E value
                  1.0e-55
Match length
                  144
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142049
Seq. ID
                  LIB3168-009-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  g419789
BLAST score
                  460
E value
                  6.0e-46
Match length
                  133
% identity
NCBI Description
                  hypothetical protein - potato
Seq. No.
                  142050
Seq. ID
                  LIB3168-009-P1-K1-E4
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  680
E value
                  9.0e-72
                  153
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142051
Seq. No.
                  LIB3168-009-P1-K1-E6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
                  382
BLAST score
                  5.0e-37
E value
                  80
Match length
```

```
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  LIB3168-009-P1-K1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  631
E value
                  5.0e-66
Match length
                  144
% identity
                  85
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142053
Seq. ID
                  LIB3168-009-P1-K1-E8
Method
                  BLASTX
NCBI GI
                  q3004557
BLAST score
                  63
E value
                  3.0e-42
Match length
                  126
                  72
% identity
NCBI Description
                  (AC003673) plasma membrane proton pump H+ ATPase, PMA1
                  [Arabidopsis thaliana]
Seq. No.
                  142054
                  LIB3168-009-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  534
E value
                  8.0e-55
Match length
                  101
% identity
                  100
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_ S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142055
Seq. ID
                  LIB3168-009-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  664
                  7.0e-70
E value
Match length
                  151
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb_CAA32494_ (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
142056
 Seq. No.
 Seq. ID
                   LIB3168-009-P1-K1-F10
                   BLASTX
..Method
 NCBI GI
                   g1169476
                   721
 BLAST score
 E value
                   1.0e-76
Match length
                   138
                   100
 % identity
                   ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
NCBI Description
                   ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632)
                   vitronectin-like adhesion protein [Nicotiana tabacum]
 Seq. No.
                   142057
 Seq. ID
                   LIB3168-009-P1-K1-F11
Method
                   BLASTN
                   g2924257
NCBI GI
 BLAST score
                   61
 E value
                   1.0e-25
Match length
                   85
 % identity
                   93
NCBI Description
                   Tobacco chloroplast genome DNA
 Seq. No.
                   142058
 Seq. ID
                   LIB3168-009-P1-K1-F12
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   614
 E value
                   5.0e-64
Match length
                   117
 % identity
                   100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                   142059
 Seq. ID
                   LIB3168-009-P1-K1-F2
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   318
E value
                   3.0e-29
                   89
Match length
 % identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142060
 Seq. No.
                   LIB3168-009-P1-K1-F3
 Seq. ID
                   BLASTX
Method
                   q2129657
NCBI GI
BLAST score
                   509
E value
                   1.0e-51
Match length
                   131
                   81
 % identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi 987014 emb CAA90877 (Z54164) oleosin [Arabidopsis
```

Match length

127

```
[Arabidopsis thaliana]
Seq. No.
                   142061
                   LIB3168-009-P1-K1-F4
Seq. ID
Method
                   BLASTN
                   g3869062
NCBI GI
BLAST score
                   224
E value
                   1.0e-123
Match length
                   284
% identity
                   94
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K11I1, complete sequence [Arabidopsis thaliana]
Seq. No.
                   142062
                   LIB3168-009-P1-K1-F6
Seq. ID
Method
                   BLASTX
NCBI GI
                   q3123131
                   161
BLAST score
E value
                   4.0e-22
                   142
Match length
                   43
% identity
                   HYPOTHETICAL OXIDOREDUCTASE IN CITA-SSPB INTERGENIC REGION
NCBI Description
                   >gi_2226201_emb_CAA74490_ (Y14082) hypothetical protein
[Bacillus subtilis] >gi_2633280_emb_CAB12784_ (Z99109)
                   similar to glucose 1-dehydrogenase [Bacillus subtilis]
                   142063
Seq. No.
                   LIB3168-009-P1-K1-F7
Seq. ID
                   BLASTX
Method
NCBI GI
                   q2129532
                   548
BLAST score
                   3.0e-56
E value
                   122
Match length
                   87
% identity
                   acyl-[acyl-carrier-protein] desaturase (EC 1.14.99.6) -
NCBI Description
                   Arabidopsis thaliana >gi_1107507_emb_CAA63746_ (X93461)
                   acyl-[acyl-carrier protein] desaturase [Arabidopsis
                   thaliana]
                   142064
Seq. No.
                   LIB3168-009-P1-K1-F8
Seq. ID
Method
                   BLASTX
NCBI GI
                   q2894378
BLAST score
                    637
                    1.0e-66
E value
Match length
                   153
% identity
                    (Y14573) putative ribophorin I homologue [Hordeum vulgare]
NCBI Description
                    142065
Seq. No.
Seq. ID
                   LIB3168-009-P1-K1-G1
Method
                   BLASTX
NCBI GI
                   g115783
BLAST score
                    670
E value
                    1.0e-70
```

thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin

Method

BLASTX

```
% identity
                     CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
   NCBI Description
                      (CAB-140) (LHCP) >gi 16376 emb CAA27543 (X03909)
                     chlorophyll a/b binding protein (LHCP AB 140) [Arabidopsis
                     thaliana]
   Seq. No.
                     142066
   Seq. ID
                     LIB3168-009-P1-K1-G11
   Method
                     BLASTX
   NCBI GI
                     g1628583
                     330
   BLAST score
E value
                     1.0e-30
   Match length
                     82
                     78
   % identity
                      (U66916) 12S cruciferin seed storage protein [Arabidopsis
   NCBI Description
                     thaliana] >gi 2842495_emb_CAA16892 (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
   Seq. No.
                     142067
   Seq. ID
                     LIB3168-009-P1-K1-G12
   Method
                     BLASTX
   NCBI GI
                     q2499945
   BLAST score
                     578
                      7.0e-60
   E value
   Match length
                     116
                      100
   % identity
                     URIDINE 5'-MONOPHOSPHATE SYNTHASE (UMP SYNTHASE) (OROTATE
   NCBI Description
                     PHOSPHORIBOSYLTRANSFERASE AND OROTIDINE 5'-PHOSPHATE
                     DECARBOXYLASE >gi 1076363 pir S46440 orotate
                     phosphoribosyltransferase (EC 2.4.2.10) /
                     orotidine-5'-phosphate decarboxylase (EC 4.1.1.23) -
                     Arabidopsis thaliana >gi 443818 emb CAA50686 (X71842)
                     pyrE-F [Arabidopsis thaliana]
   Seq. No.
                     142068
                     LIB3168-009-P1-K1-G2
   Seq. ID
   Method
                     BLASTX
   NCBI GI
                     q2464901
   BLAST score
                      170
   E value
                      5.0e-12
   Match length
                      114
   % identity
                      34
                      (Z99708) putative protein [Arabidopsis thaliana]
   NCBI Description
   Seq. No.
                      142069
   Seq. ID
                     LIB3168-009-P1-K1-G3
   Method
                     BLASTX
   NCBI GI
                     q2244752
   BLAST score
                      365
                      8.0e-35
   E value
   Match length
                     116
   % identity
                      62
                      (Z97335) hypothetical protein [Arabidopsis thaliana]
   NCBI Description
                      142070
   Seq. No.
                     LIB3168-009-P1-K1-G4
   Seq. ID
```

```
g1628583
NCBI GI
BLAST score
                   625
E value
                   3.0e-65
Match length
                   120
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495 emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142071
Seq. No.
Seq. ID
                   LIB3168-009-P1-K1-G5
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   508
                   1.0e-51
E value
                   147
Match length
                   71
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB (Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142072
                   LIB3168-009-P1-K1-G7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2129657
BLAST score
                   236
                   8.0e-20
E value
                   87
Match length
                   63
% identity
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                 142073
Seq. ID
                   LIB3168-009-P1-K1-G8
Method
                   BLASTX
NCBI GI
                   g3164142
BLAST score
                   539
E value
                   3.0e-55
Match length
                   153
% identity
                   75
NCBI Description
                   (D78606) cytochrome P450 monooxygenase [Arabidopsis
                   thaliana]
                   142074
Seq. No.
Seq. ID
                   LIB3168-009-P1-K1-G9
Method
                   BLASTX
NCBI GI
                   g3738335
BLAST score
                   286
                   1.0e-25
E value
                   99
Match length
% identity
```

NCBI Description (AC005170) unknown protein [Arabidopsis thaliana]

Seq. ID

```
142075
Seq. No.
Seq. ID
                  LIB3168-009-P1-K1-H1
                  BLASTX
Method
NCBI GI
                  g1628583
                  625
BLAST score
                  3.0e-65
E value
Match length
                  120
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142076
Seq. No.
                  LIB3168-009-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  509
BLAST score
                  5.0e-52
E value
                  99
Match length
                  99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142077
                  LIB3168-009-P1-K1-H11
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4199934
BLAST score
                  250
E value
                  1.0e-138
                  250
Match length
                  100
% identity
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  142078
                  LIB3168-009-P1-K1-H12
Seq. ID
Method
                  BLASTN
NCBI GI
                  o2252823
BLAST score
                  88
                   4.0e-42
E value
                  88
Match length
% identity
                  100
NCBI Description
                  Arabidopsis thaliana BAC IG005I10
Seq. No.
                  142079
Seq. ID
                  LIB3168-009-P1-K1-H3
                  BLASTX
Method
NCBI GI
                  g541847
BLAST score
                  832
                  1.0e-89
E value
                  153
Match length
                  100
% identity
                  alcohol dehydrogenase (EC 1.1.1.1) - Arabidopsis thaliana
NCBI Description
Seq. No.
                  142080
```

LIB3168-009-P1-K1-H4

```
Method
                   BLASTX
NCBI GI
                   g267069
BLAST score
                   231
E value
                   2.0e-19
Match length
                   41
                   100
% identity
                   TUBULIN ALPHA-2/ALPHA-4 CHAIN >gi 320183 pir JQ1594
NCBI Description
                   tubulin alpha chain - Arabidopsis thaliana >gi 166914
                   (M84696) apha-2 tubulin [Arabidopsis thaliana] >gi 166916
                   (M84697) alpha-4 tubulin [Arabidopsis thaliana]
                   142081
Seq. No.
Seq. ID
                   LIB3168-009-P1-K1-H5
Method
                   BLASTN
                   g395203
NCBI GI
BLAST score
                   62
E value
                   8.0e-27
Match length
                   66
% identity
                   52
NCBI Description A.thaliana 2S albumin gene isoforms 1 and 2, complete CDS's
                   142082
Seq. No.
                   LIB3168-009-P1-K1-H6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2129657
                   273
BLAST score
E value
                   3.0e-24
                   103
Match length
% identity
                   63
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   142083
                   LIB3168-009-P1-K1-H7
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4199934
                   288
BLAST score
E value
                   1.0e-161
Match length
                   392
% identity
                   Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
Seq. No.
                   142084
Seq. ID
                   LIB3168-009-P1-K1-H8
                   BLASTX
Method
NCBI GI
                   g128877
BLAST score
                   343
E value
                   3.0e-32
Match length
                   100
                   73
% identity
                   NADH-PLASTOQUINONE OXIDOREDUCTASE CHAIN 4L, CHLOROPLAST
NCBI Description
                   >gi 66167 pir DENTNL NADH dehydrogenase (ubiquinone) (EC
                   1.6.5.3) chain 4L - common tobacco chloroplast
```

>gi-1223668\_emb\_CAA77396\_ (Z00044) NADH dehydrogenase ND4L

Seq. No.

Seq. ID Method

subunit [Nicotiana tabacum] >gi\_225256\_prf\_\_1211235CQ NADH dehydrogenase 4L-like ORF 101 [Nicotiana tabacum]

```
142085
Seq. No.
                  LIB3168-009-P1-K1-H9
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4678371
BLAST score
                  318
E value
                  1.0e-179
Match length
                  356
                  100
% identity
NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone T6G15
                  (ESSA project)
Seq. No.
                  142086
                  LIB3168-010-P1-K1-A1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142087
Seq. No.
                  LIB3168-010-P1-K1-A10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142088
Seq. No.
                  LIB3168-010-P1-K1-A12
Sea. ID
Method
                  BLASTX
NCBI GI
                  g112737
                  280
BLAST score
                  7.0e-25
E value
Match length
                  124
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
```

142089

BLASTX

LIB3168-010-P1-K1-A3

Method

BLASTX

```
NCBI GI
                  g1169476
BLAST score
                  596
                  5.0e-62
E value
Match length
                  117
                  98
% identity
NCBI Description
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
                  ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632)
                  vitronectin-like adhesion protein [Nicotiana tabacum]
                  142090
Seq. No.
                  LIB3168-010-P1-K1-A6
Seq. ID
                  BLASTN
Method
NCBI GI
                  q3212846
BLAST score
                  276
                  1.0e-154
E value
                  459
Match length
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC F6E13 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  142091
Seq. No.
                  LIB3168-010-P1-K1-A8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2244747
BLAST score
                  37
                  2.0e-11
E value
                  94
Match length
                  92
% identity
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                  fragment No
                  142092
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-A9
Method
                  BLASTN
NCBI GI
                  g4539353
BLAST score
                  102
E value
                  5.0e-50
Match length
                  142
                  94.
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F25I24
NCBI Description
                   (ESSA project)
                  142093
Seq. No. ...
Seq. ID
                  LIB3168-010-P1-K1-B1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  644
                  2.0e-67
E value
                  156
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142094
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-B10
```

```
NCBI GI
                     q4512675
  BLAST score
                     488
                     3.0e-49
  E value
 Match length
                     131
  % identity
                     75
                     (AC006931) putative citrate synthase [Arabidopsis thaliana]
 NCBI Description
                     142095
  Seq. No.
                     LIB3168-010-P1-K1-B11
  Seq. ID
 Method
                     BLASTX
  NCBI GI
                     q1345973
  BLAST score
                     528
  E value
                     6.0e-54
 Match length
                     121
                     81
  % identity
                     OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
  NCBI Description
                     >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC
                     1.14.99.-) CF3 - Arabidopsis thaliana >gi_408483 (L22931)
                     omega-3 fatty acid desaturase [Arabidopsis thaliana]
                     >gi_471091_dbj_BAA04505_ (D17579) fatty acid desaturase
                     [Arabidopsis thaliana] >gi_1197795_dbj_BAA05514_ (D26508)
                     microsomal omega-3 fatty acid desaturase [Arabidopsis
                     thaliana] >gi_3420053 (AC004680) omega-3 fatty acid
                     desaturase [Arabidopsis thaliana]
                     142096
  Seq. No.
  Seq. ID
                     LIB3168-010-P1-K1-B12
                     BLASTX
 Method
                     g1628583
  NCBI GI
                     625
  BLAST score
                     3.0e-65
  E value
 Match length
                     120
                     100
  % identity
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
· NCBI Description
                     thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
  Seq. No.
                    142097
                     LIB3168-010-P1-K1-B2
  Seq. ID
                     BLASTX
  Method
  NCBI GI
                     q2129657
  BLAST score
                     428
  E value
                     3.0e-42
  Match length
                     115
                     78
  % identity
                     oleosin isoform - Arabidopsis thaliana
  NCBI Description
                     >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                     [Arabidopsis thaliana]
                     142098
  Seq. No.
                     LIB3168-010-P1-K1-B3
  Seq. ID
  Method
                     BLASTX
                     q2281115
  NCBI GI
                     751
  BLAST score
                     2.0e-80
  E value
```

154 .

Match length

```
% identity
                  (AC002330) putative cullin-like 1 protein [Arabidopsis
NCBI Description
                  thaliana]
                  142099
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-B5
                  BLASTX
Method
NCBI GI
                  g115767
                  516
BLAST score
E value
                  1.0e-52
Match length
                  121
                  86
% identity
                  CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                  (CAB-165/180) (LHCP) >gi_81603_pir A29280 chlorophyll
                  a/b-binding protein ab165 - Arabidopsis thaliana
                  >gi 16368_emb_CAA27540 (X03907) chlorophyll a/b binding
                  protein (LHCP AB 65) [Arabidopsis thaliana]
                  >gi 16372 emb CAA27541 (X03908) chlorophyll a/b binding
                  protein (LHCP AB 180) [Arabidopsis thaliana]
Seq. No.
                  142100
Seq. ID
                  LIB3168-010-P1-K1-B8
Method
                  BLASTN
NCBI GI
                  g3327867
BLAST score
                  451
E value
                  0.0e + 00
Match length
                  454
% identity
                  100
                  Arabidopsis thaliana CIP7 mRNA for COP1-Interacting Protein
NCBI Description
                  7, complete cds
Seq. No.
                  142101
                  LIB3168-010-P1-K1-B9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  624
E value
                  3.0e-65
Match length
                  146 ·
                  82
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142102
                  LIB3168-010-P1-K1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2288887
BLAST score
                  604
E value
                  7.0e-63
                  133
Match length
                  85
% identity
                  (Y14325) mevalonate diphosphate decarboxylase [Arabidopsis
NCBI Description
```

thaliana] >gi 3250736 emb CAA76803 (Y17593) mevalonate

```
>qi 3786002 (AC005499) mevalonate diphosphate decarboxylase
                   [Arabidopsis thaliana]
Seq. No.
                   142103
                   LIB3168-010-P1-K1-C10
Seq. ID
                   BLASTX
Method
NCBI GI
                   q133960
BLAST score -
                   213
E value
                   5.0e-17
                   49
Match length -
% identity
                   88
                   CHLOROPLAST 30S RIBOSOMAL PROTEIN S4 >gi 70876 pir R3NT4
NCBI Description
                   ribosomal protein S4 - common tobacco chloroplast
                   >gi_11834_emb_CAA77354_ (Z00044) ribosomal protein S4
[Nicotiana tabacum] >gi_225202_prf__1211235AG ribosomal
                   protein S4 [Nicotiana tabacum]
                   142104
Seq. No.
                   LIB3168-010-P1-K1-C11
Seq. ID
Method
                   BLASTN
NCBI GI
                   g166569
BLAST score
                   179
E value
                   2.0e-96
Match length
                   183
% identity
                   99
                   Arabidopsis thaliana glycine rich protein (RAB18) gene,
NCBI Description
                   complete cds
Seq. No.
                   142105
                   LIB3168-010-P1-K1-C12
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   625
E value
                   3.0e-65
Match length
                   120
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142106
Seq. ID
                   LIB3168-010-P1-K1-C2
Method
                   BLASTX
NCBI GI
                   g2961390
BLAST score
                   863
E value
                   3.0e-93
Match length
                   154
% identity
                   (AL022141) beta-galactosidase like protein [Arabidopsis
NCBI Description
                   thaliana]
                   142107
Seq. No.
                   LIB3168-010-P1-K1-C3
Seq. ID
                   BLASTX
Method
                   g4056469
NCBI GI
```

diphosphate decarboxylase [Arabidopsis thaliana]

577

BLAST score

Seq. No.

142112

```
1.0e-59
E value
Match length
                  115
                  97
% identity
                  (AC005990) Strong similarity to gb_M95166 ADP-ribosylation
NCBI Description
                  factor from Arabidopsis thaliana. ESTs gb_Z25826,
                  gb_R90191, gb_N65697, gb_AA713150, gb_T46332, gb_AA040967,
                  gb_AA712956, gb_T46403, gb_T46050, gb_AI100391 and
                  gb Z25043 come from t
                  142108
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-C4
                  BLASTN
Method
NCBI GI
                  q4757417
BLAST score
                  245
                  1.0e-135
E value
Match length
                  468
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  T30G6, complete sequence
                  142109
Seq. No.
                  LIB3168-010-P1-K1-C5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  595
                  9.0e-62
E value
Match length
                  154
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142110
                  LIB3168-010-P1-K1-C7
Seq. ID
Method
                  BLASTX
                  q4090884
NCBI GI
BLAST score
                  418
E value
                  3.0e-41
                  81
Match length
% identity
                  (AF025333) vesicle-associated membrane protein 7B;
NCBI Description
                  synaptobrevin 7B [Arabidopsis thaliana]
Seq. No.
                  142111
                  LIB3168-010-P1-K1-C8
Seq. ID
                  BLASTN
Method
                  q4760411
NCBI GI
BLAST score
                  418
                  0.0e + 00
E value
                                                                           i diam'r.
                  443 ...
Match length
                  98
% identity
                  Arabidopsis thaliana chromosome 1 BAC F25C20 sequence,
NCBI Description
                  complete sequence
```

```
LIB3168-010-P1-K1-C9
Seq. ID
Method .
                  BLASTN
NCBI GI
                  g2584720
BLAST score
                  39
E value
                  1.0e-12
Match length
                  46
% identity
                  98
                  A.thaliana gene encoding sulfite reductase
NCBI Description
                  142113
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-D1
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  105
E value
                  9.0e-52
Match length
                  129
% identity
                  98
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
Seq. No.
                  142114
                  LIB3168-010-P1-K1-D11
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  625
                  3.0e-65
E value
                  120
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142115
Seq. ID
                  LIB3168-010-P1-K1-D12
Method .
                  BLASTN
                  g3789706
NCBI GI
BLAST score
                  182
                  8.0e-98
E value
Match length
                  396
                  87
% identity
                  Arabidopsis thaliana chromosome 1 BAC F15K9 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  142116
Seq. ID
                  LIB3168-010-P1-K1-D2
Method
                  BLASTX
NCBI GI
                  g1705463
BLAST score
                  538
E value
                  4.0e-55
Match length
                  118
% identity
                  BIOTIN SYNTHASE (BIOTIN SYNTHETASE) >gi_2129547_pir__$71201
NCBI Description
                  biotin sythase - Arabidopsis thaliana >gi_1045316 (U24147)
                  biotin sythase [Arabidopsis thaliana] >gi 1403662 (U31806)
                  BIO2 protein [Arabidopsis thaliana] >gi 1769457 (L34413)
                  biotin synthase [Arabidopsis thaliana] >gi 2288983
```

(AC002335) biotin synthase (Bio B) [Arabidopsis thaliana]

NCBI GI

g133438

```
thaliana]
                  142117
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-D4
Method
                  BLASTX
                  g267136
NCBI GI
BLAST score
                  538
                  4.0e-55
E value
                  134
Match length
% identity
                  79
NCBI Description
                  PLASMA MEMBRANE INTRINSIC PROTEIN 2C (WATER-STRESS INDUCED
                  TONOPLAST INTRINSIC PROTEIN) (WSI-TIP)
                  >gi 217869 dbj BAA02520 (D13254) transmembrane channel
                  protein [Arabidopsis thaliana] >gi 4371283 gb AAD18141
                  (AC006260) putative plasma membrane intrinsic protein 2C
                  [Arabidopsis thaliana] >gi 384324_prf__1905411A
                  transmembrane channel [Arabidopsis thaliana]
                  142118
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-D5
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  668
                  2.0e-70
E value
Match length
                  153
                  83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142119
Seq. ID
                  LIB3168-010-P1-K1-D6
                  BLASTX
Method
                  q2244799
NCBI GI
BLAST score
                  640
                  4.0e-67
E value
Match length
                  143
% identity
                  (Z97336) carnitine racemase homolog [Arabidopsis thaliana]
NCBI Description
                  142120
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  g2245066
BLAST score
                  276
E value
                  2.0e-24
Match length
                  141
% identity
                  39
                 (Z97342) Beta-Amylase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  142121
Seq. ID
                  LIB3168-010-P1-K1-D8
Method
                  BLASTX
```

>qi 1589016 prf 2209438A biotin synthase [Arabidopsis

```
BLAST score
                   685
E value
                   2.0e-72
Match length
                   150
                   85
% identity
NCBI Description
                   DNA-DIRECTED RNA POLYMERASE BETA' CHAIN
                   >gi 81504 pir B29959 DNA-directed RNA polymerase (EC
                   2.7.7.6) beta chain - spinach chloroplast >gi_295120
                   (M55297) RNA polymerase [Spinacia oleracea]
Seq. No.
                   142122
                   LIB3168-010-P1-K1-D9
Seg. ID
                   BLASTX
Method
NCBI GI
                   q1169476
BLAST score
                   747
                   1.0e-79
E value
Match length
                   145
                   99
% identity
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
NCBI Description
                   ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632)
                   vitronectin-like adhesion protein [Nicotiana tabacum]
Seq. No.
                   142123
                   LIB3168-010-P1-K1-E1
Seq. ID
Method
                   BLASTX
NCBI GI
                   g267069
BLAST score
                   621
E value
                   8.0e-65
Match length
                   115
                   100
% identity
                   TUBULIN ALPHA-2/ALPHA-4 CHAIN >gi 320183_pir__JQ1594
NCBI Description
                   tubulin alpha chain - Arabidopsis thaliana >gi 166914
                   (M84696) apha-2 tubulin [Arabidopsis thaliana] >gi_166916
                   (M84697) alpha-4 tubulin [Arabidopsis thaliana]
Seq. No.
                   142124
                   LIB3168-010-P1-K1-E11
Seq. ID
Method
                   BLASTX
NCBI GI
                   q3193314
BLAST score
                   358
E value
                   5.0e-34
                   152
Match length
                   51
% identity
NCBI Description
                   (AF069299) contains similarity to Arabidopsis scarecrow
                   (GB:U62798) [Arabidopsis thaliana]
Seq. No.
                   142125
Seq. ID
                   LIB3168-010-P1-K1-E12
                   BLASTX
Method
NCBI GI
                   g112741
BLAST score
                   58
E value
                   2.0e-41
Match length
                   131
                   65
% identity
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
```

3 precursor [Arabidopsis thaliana] >gi\_395201 emb\_CAA80868\_

Method

NCBI GI

BLASTX g112682

```
precursor [Arabidopsis thaliana]
 : ;-
                  142126
Seq. No.
                  LIB3168-010-P1-K1-E2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  434
E value
                  4.0e-43
                 . 131
Match length
                  73
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142127
Seq. ID
                  LIB3168-010-P1-K1-E3
Method
                  BLASTN
NCBI GI
                  g3047074
BLAST score
                  60
E value
                  5.0e-25
                  162
Match length
                  91
% identity
NCBI Description Arabidopsis thaliana BAC F21E10
Seq. No.
                  142128
Seq. ID
                  LIB3168-010-P1-K1-E4
Method
                  BLASTN
                  g397397
NCBI GI
BLAST score
                  301
E value
                  1.0e-169
                  345
Match length
                  97
% identity
NCBI Description A.thaliana chloroplast trnL gene, intron
Seq. No.
                  142129
                  LIB3168-010-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2118307
BLAST score
                  561
E value
                  9.0e-61
Match length
                  129
% identity
                  cysteine synthase (EC 4.2.99.8) 3A - Arabidopsis thaliana
NCBI Description
                  >qi 804950 emb CAA58893 (X84097) cysteine synthase
                  [Arabidopsis thaliana] >gi 1096196 prf 2111276A Ser(Ac)
                  thiol lyase [Arabidopsis thaliana]
                  142130
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-E6
```

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3

Method

NCBI GI

BLASTX

q4038039

egi.e.

```
BLAST score
                    614
E value
                    5.0e-64
Match length
                    143
                    82
% identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
                    142131·
Seq. No.
Seq. ID
                    LIB3168-010-P1-K1-E7
Method
                    BLASTX
NCBI GI
                    g1169515
BLAST score
                    545
E value
                    6.0e-56
                    103
Match length
% identity
                    61
                    EM-LIKE PROTEIN GEA1 >gi 2119768 pir S34819 embryonic
NCBI Description
                    abundant protein Em1 - Arabidopsis thaliana
                   >gi_298070_emb_CAA77509_ (Z11158) Em protein [Arabidopsis thaliana] >gi_298072_emb_CAA77979_ (Z11921) Em protein homologue [Arabidopsis thaliana] >gi_3068708 (AF049236) Em1
                   protein [Arabidopsis thaliana]
                    142132
Seq. No.
                   LIB3168-010-P1-K1-E8
Seq. ID
                   BLASTX
Method
NCBI GI
                    g136636
                    380
BLAST score
E value
                    7.0e-37
Match length
                    77
% identity
                   UBIQUITIN-CONJUGATING ENZYME E2-17 KD 1 (UBIQUITIN-PROTEIN
NCBI Description
                   LIGASE 1) (UBIQUITIN CARRIER PROTEIN 1)
                   >gi 1076424 pir S43781 ubiquitin-conjugating enzyme UBC1 -
                   Arabidopsis thaliana >gi 442594 pdb 1AAK Ubiquitin
                    Conjugating Enzyme (E.C.6.3.2.19) >gi 2981894 pdb 2AAK
                    Ubiquitin Conjugating Enzyme From Arabidopsis Thaliana
                    >gi 166924 (M62721) ubiquitin carrier protein [Arabidopsis
                    thaliana] >gi 431260 (L19351) ubiquitin conjugating enzyme
                    [Arabidopsis thaliana]
                   142133
Seq. No.
                   LIB3168-010-P1-K1-E9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1616785
BLAST score
                    659
E value
                    3.0e-69
Match length
                   125
% identity
NCBI Description
                    (U71121) pyruvate decarboxylase [Arabidopsis thaliana]
                   142134
Seq. No.
Seq. ID
                   LIB3168-010-P1-K1-F1
```

```
BLAST score
                  169
E value
                  5.0e-12
Match length
                  44
                  68
% identity
NCBI Description (AC005936) putative proteinase inhibitor II [Arabidopsis
                 thaliana]
Seq. No.
                  142135
                  LIB3168-010-P1-K1-F10
Seq. ID
                  BLASTX
Method
                  q2493696
NCBI GI
                  602
BLAST score
E value
                  1.0e-62
                  124
Match length
                  95
% identity
                  HYPOTHETICAL 21.5 KD PROTEIN (ORF 185) >gi 1480440 (U34204)
NCBI Description
                  ORF185; hypothetical 21.4 kD protein [Brassica oleracea]
Seq. No.
                  142136
Seq. ID
                  LIB3168-010-P1-K1-F11
                  BLASTN
Method
NCBI GI
                  q2828185
BLAST score
                  198
                  1.0e-107
E value
                  294
Match length
% identity
                  94
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MUD21, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142137
                  LIB3168-010-P1-K1-F12
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4630745
BLAST score
                  440
E value
                  0.0e + 00
Match length
                  461
                  98
% identity
                  Arabidopsis thaliana chromosome II BAC T3D7 genomic
NCBI Description
                  sequence, complete sequence
                  142138
Seq. No.
                  LIB3168-010-P1-K1-F3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142139
Seq. No.
                  LIB3168-010-P1-K1-F4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1518540
BLAST score
                  357
```

```
E value
                  4.0e-34
Match length
                  73
                  93
% identity
                  (U53418) UDP-glucose dehydrogenase [Glycine max]
NCBI Description
                  142140
Seq. No.
Seq. ID .
                  LIB3168-010-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  743
                  4.0e-79
E value
Match length
                  154
                  91
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142141
Seq. ID
                  LIB3168-010-P1-K1-F6
Method
                  BLASTN
NCBI GI
                  q3789706
BLAST score
                  175
E value
                  1.0e-93
Match length
                  360
% identity
                  88
                  Arabidopsis thaliana chromosome 1 BAC F15K9 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  142142
Seq. ID
                  LIB3168-010-P1-K1-F7
Method
                  BLASTX
NCBI GI
                  g584892
BLAST score
                  626
                  2.0e-65
E value
Match length
                  152
                  75
% identity
                  SERINE CARBOXYPEPTIDASE I PRECURSOR (CARBOXYPEPTIDASE C)
NCBI Description
                  >gi 629805 pir S43516 serine carboxypeptidase I - rice
                  >gi 409580 dbj BAA04510 (D17586) serine carboxypeptidase I
                  [Oryza sativa]
                  142143
Seq. No.
Seq. ID
                  LIB3168-010-P1-K1-F8
Method
                  BLASTX
NCBI GI
                  g3152576
BLAST score
                  331
E value
                  8.0e-31
Match length
                  147
% identity
                  46
                  (AC002986) Similar to liver-specific transport protein
NCBI Description
                  gb_L27651 from Rattus norviegicus. [Arabidopsis thaliana]
```

142144

Seq. No.

```
LIB3168-010-P1-K1-G1
Seq. ID
                  BLASTX
Method
NCBI GI -
                  g112737
                  580
BLAST score
                  5.0e-60
E value
Match length
                  139
% identity
                  81
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (224745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  142145
Seq. No.
                  LIB3168-010-P1-K1-G10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3650026
BLAST score
                  158
                  2.0e-83
E value
Match length
                  359
                  94
% identity
                  Arabidopsis thaliana chromosome II BAC T26I20 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142146
                  LIB3168-010-P1-K1-G12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1336648
BLAST score
                  148
                  9.0e-10
E value
                  49
Match length
% identity
                  (U57824) endopeptidase-like protein [Nicotiana tabacum]
NCBI Description
                  142147
Seq. No.
                  LIB3168-010-P1-K1-G3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  631.
                  5.0e-66
E value
Match length
                  148
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142148
                  LIB3168-010-P1-K1-G4
Seq. ID
Method
                  BLASTN
                  g2264309
NCBI GI
BLAST score
                  357
                  0.0e+00
E value
Match length
                  440
```

```
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MJJ3, complete sequence [Arabidopsis thaliana]
                   142149
Seq. No.
Seq. ID
                   LIB3168-010-P1-K1-G5
Method
                   BLASTX
NCBI GI
                   g2648800
                   195
BLAST score
                   7.0e-15
E value
                   154
Match length
                   34
% identity
                   (AE000982) phosphonopyruvate decarboxylase (bcpC-2)
NCBI Description
                   [Archaeoglobus fulgidus]
                   142150
Seq. No.
                   LIB3168-010-P1-K1-G6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g119143
                   735
BLAST score
E value
                   3.0e-78
Match length
                   141
                   100
% identity
                   ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
NCBI Description
                   >gi_81606_pir__S06724 translation elongation factor eEF-1
alpha chain - Arabidopsis thaliana >gi_295788_emb_CAA34453_
                   (X16430) elongation factor 1-alpha [Arabidopsis thaliana]
                   >gi_1369927_emb_CAA34454_ (X16431) elongation factor
                   1-alpha [Arabidopsis thaliana] >gi_1369928_emb_CAA34455
                   (X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                   >gi_1532172 (U63815) EF-lalpha-Al [Arabidopsis thaliana]
                   >gi 1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                   >gi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
Seq. No.
                   142151
                   LIB3168-010-P1-K1-G7
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112737
BLAST score
                   624
                   3.0e-65
E value
Match length
                   146
                   82
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi 395204 emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   142152
Seq. No.
                   LIB3168-010-P1-K1-G8
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3702734
                   178
BLAST score
E value
                   2.0e-95
```

455

Match length

```
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MNB8, complete sequence [Arabidopsis thaliana]
                   142153
Seq. No.
Seq. ID
                   LIB3168-010-P1-K1-G9
Method
                   BLASTX
NCBI GI
                   g4038043
BLAST score
                   333
E value
                   4.0e-31
Match length
                   98
                   70
% identity
NCBI Description
                   (AC005936) putative DNA-binding protein [Arabidopsis
                   thaliana]
                   142154
Seq. No.
                   LIB3168-010-P1-K1-H10
Seq. ID
                   BLASTN
Method
NCBI GI
                   g4544381
BLAST score
                   424
E value
                   0.0e + 00
Match length
                   444
                   99
% identity
                   Arabidopsis thaliana chromosome II BAC F16F14 genomic
NCBI Description
                   sequence, complete sequence
Seq. No.
                   142155
                   LIB3168-010-P1-K1-H12
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2252639
BLAST score
                   201
E value
                   1.0e-109
                   234
Match length
% identity
                   96
                   Genomic sequence of Arabidopsis BAC F8A5, complete sequence
NCBI Description
                   [Arabidopsis thaliana]
                   142156
Seq. No.
                   LIB3168-010-P1-K1-H2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4558547
BLAST score
                   423
E value
                   1.0e-41
Match length
                   153
                   64
% identity
NCBI Description
                   (AC007138) hypothetical protein [Arabidopsis thaliana]
                   142157
Seq. No.
                  LIB3168-010-P1-K1-H3
Seq. ID
                  BLASTN
Method
NCBI GI
                  q3860242
BLAST score
                   441
E value
                   0.0e+00
                   460
Match length
                   99
% identity
                  Arabidopsis thaliana chromosome I BAC T13M11 genomic
NCBI Description
```

sequence, complete sequence

```
Seq. No.
                  142158
Seq. ID
                  LIB3168-010-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  q1169476
BLAST score
                  759
E value
                  5.0e-81
Match length
                  146
                  100
% identity
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
NCBI Description
                  ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632)
                  vitronectin-like adhesion protein [Nicotiana tabacum]
Seq. No.
                  142159
Seq. ID
                  LIB3168-010-P1-K1-H5
Method
                  BLASTX
NCBI GI
                  g2894378
BLAST score
                  349
E value
                  6.0e-33
                  99
Match length
% identity
                  (Y14573) putative ribophorin I homologue [Hordeum vulgare]
NCBI Description
Seq. No.
                  142160
Seq. ID
                  LIB3168-010-P1-K1-H6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  62
E value
                  3.0e-46
Match length
                  146
                  71
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142161
Seq. ID
                  LIB3168-010-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  624
E value
                  3.0e-65
                  146
Match length
                  82
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142162
Seq. ID
                  LIB3168-010-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  725
E value
                  5.0e-77
```

```
145
Match length
                   99
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   tha\overline{1}iana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142163
                  LIB3168-011-P1-K1-A1
Seq. ID
                   BLASTX
Method
NCBI GI
                   q112681
BLAST score
                   490
E value
                   1.0e-49
                   103
Match length
                   91
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142164
Seq. ID
                   LIB3168-011-P1-K1-A10
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   436
E value
                   3.0e-43
                   126
Match length
% identity
                   75
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   tha\overline{1}iana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   142165
Seq. No.
                   LIB3168-011-P1-K1-A12
Seq. ID
                   BLASTX
Method
NCBI GI
                   g4586021
                   650
BLAST score
E value
                   2.0e-68
Match length
                   126
% identity
                   (AC007170) putative cytoplasmic aconitate hydratase
NCBI Description
                   [Arabidopsis thaliana]
                   142166
Seq. No.
                   LIB3168-011-P1-K1-A2
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112737
BLAST score
                   313
E value
                   7.0e-29
Match length
                   101
                   66
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
```

PROTEIN) >gi 68853\_pir\_\_NWMU1 2S albumin 1 precursor -

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA8087.0\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana]

Seq. No. 142167

Seq. ID LIB3168-011-P1-K1-A3

Method BLASTX
NCBI GI g1628583
BLAST score 218
E value 1.0e-17
Match length 66
% identity 97

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142168

Seq. ID LIB3168-011-P1-K1-A4

Method BLASTX
NCBI GI g112739
BLAST score 425
E value 6.0e-42
Match length 121
% identity 71

NCBI Description 2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68854\_pir\_\_NWMU2 2S albumin 2 precursor - Arabidopsis thaliana >gi\_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi\_395205\_emb\_CAA80871\_

(Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]

>gi 4490711 emb CAB38845.1\_ (AL035680) NWMU2-2S albumin 2

precursor [Arabidopsis thaliana]

Seq. No. 142169

Seq. ID LIB3168-011-P1-K1-A5

Method BLASTX
NCBI GI g112737
BLAST score 506
E value 2.0e-51
Match length 125
% identity 79

NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]

>gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1

precursor [Arabidopsis thaliana]

Seq. No. 142170

Seq. ID LIB3168-011-P1-K1-A6

Method BLASTN
NCBI GI g4097693
BLAST score 78
E value 3.0e-36
Match length 154

Method

BLASTN

```
% identity
NCBI Description
                  Arabidopsis thaliana prohibitin 1 (Atphb1) gene, complete
                  cds
Seq. No.
                  142171
Seq. ID
                  LIB3168-011-P1-K1-A7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  610
E value
                  1.0e-63
                  117
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142172
                  LIB3168-011-P1-K1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  484
E value
                  4.0e-49
Match length
                  96
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142173
Seq. ID
                  LIB3168-011-P1-K1-B1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  668
E value
                  2.0e-70
Match length
                  128
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142174
                  LIB3168-011-P1-K1-B10
Seq. ID
Method.
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  515
E value
                  2.0e-52
Match length
                  124
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142175
                  LIB3168-011-P1-K1-B11
Seq. ID
```

17412

```
NCBI GI
                  q3046852
BLAST score
                  244
                  1.0e-135
E value
                  395
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MQJ16, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142176
                  LIB3168-011-P1-K1-B2
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112681
BLAST score
                  484
                  5.0e-49
E value
                  100
Match length
                  92
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir_ S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142177
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-B3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  687
                  1.0e-72
E value
Match length
                  131
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142178
                  LIB3168-011-P1-K1-B4
Seq. ID
                  BLASTX
Method
                  q112682
NCBI GI
BLAST score
                  639
E value
                  5.0e-67
                  130
Match length
                  92
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142179
Seq. No.
                  LIB3168-011-P1-K1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  394
                  2.0e-38
E value
Match length
                  104
% identity
                  75
NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
```

```
PROTEIN) >qi 68853 pir NWMU1 2S albumin 1 precursor -
Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870_
(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
>gi 4490710 emb_CAB38844.1 (AL035680) NWMU1-2S albumin 1
precursor [Arabidopsis thaliana]
```

```
Seq. No.
                  142180
Seq. ID
                  LIB3168-011-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  2.0e-67
Match length
                  .123
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142181
                  LIB3168-011-P1-K1-B7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  575
E value
                  1.0e-59
Match length
                  111
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142182
                  LIB3168-011-P1-K1-B9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
```

BLAST score 659 E value 2.0e-69

123 Match length 100 % identity NCBI Description

2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi 395201\_emb\_CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712 emb\_CAB38846.1 (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

142183 Seq. No.

LIB3168-011-P1-K1-C1 Seq. ID

BLASTX Method q3808062 NCBI GI 159 BLAST score 1.0e-10 E value 66 Match length 45 % identity

(AB019195) PV100 [Cucurbita maxima] NCBI Description

NCBI GI

```
Seq. No.
                  142184
                  LIB3168-011-P1-K1-C11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  540
E value
                  2.0e-55
Match length
                  128
                  80
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142185
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  597
                  4.0e-62
E-value
                  126
Match length
% identity
                  89
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142186
                  LIB3168-011-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  700
E value
                  3.0e-74
Match length
                  131
% identity
                  99
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142187
Seq. ID
                  LIB3168-011-P1-K1-C3
Method
                  BLASTN
NCBI GI
                  q3228389
BLAST score
                  376
                  0.0e+00
E value
Match length
                  376
                  100
% identity
                  Genomic sequence for Arabidopsis thaliana BAC F17L21,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  142188
Seq. ID
                  LIB3168-011-P1-K1-C4
Method
                  BLASTN
```

q2656031

```
BLAST score
                  314
                  1.0e-176
E value
Match length
                  362
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  142189
Seq. No.
                  LIB3168-011-P1-K1-C6
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  108
E value
                  3.0e-20
                  113
Match length
                  51
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142190
Seq. No.
                  LIB3168-011-P1-K1-C7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  519
                  6.0e-53
E value
                  127
Match length
                  80
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142191
                  LIB3168-011-P1-K1-C8
Seq. ID
                  BLASTX
Method
                  q1628583
NCBI GI
BLAST score
                  593
E value
                  1.0e-61
Match length
                  114
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142192
Seq. No.
                  LIB3168-011-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3367529
BLAST score
                  617
                  2.0e-64
E value
Match length
                  130
% identity
                  95
                  (AC004392) Strong similarity to gi_2160138 F19K23.6 gene
NCBI Description
```

product from A. thaliana BAC gb ACO00375. [Arabidopsis

Match length

4.00

## thaliana]

```
142193
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-D1
Method
                  BLASTX
NCBI GI
                  g2088654
BLAST score
                  517
                  1.0e-52
E value
Match length
                  114
                  90
% identity
                  (AF002109) 60S acidic ribosomal protein P0 isolog
NCBI Description
                  [Arabidopsis thaliana]
                  142194
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-D11
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  674
                  4.0e-71
E value
                  129
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142195
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-D12
                  BLASTX
Method
                  g1705677
NCBI GI
BLAST score
                  457
E value
                  1.0e-45
Match length
                  106
                  88
% identity
                  CELL DIVISION CYCLE PROTEIN 48 HOMOLOG
NCBI Description
                  >gi_2118115_pir__S60112 cell division control protein CDC48
                  homolog - Arabidopsis thaliana >gi_1019904 (U37587) cell
                  division cycle protein [Arabidopsis thaliana]
                  142196
Seq. No.
                  LIB3168-011-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  658
E value
                  3.0e-69
Match length
                  126
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142197
Seq. No.
                  LIB3168-011-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3808062
BLAST score
                  167
E value
                  1.0e-11
```

BLAST score

667

% identity NCBI Description (AB019195) PV100 [Cucurbita maxima] Seq. No. 142198 Seq. ID LIB3168-011-P1-K1-D5 Method BLASTX NCBI GI g3915961 BLAST score 604 E value 6.0e-63 Match length 127 % identity 91 NCBI Description HYPOTHETICAL 267 KD PROTEIN (ORF 2280) >gi 2924274 emb CAA77427 (Z00044) Ycf2 protein [Nicotiana tabacum] >gi 2924285 emb CAA77438 (200044) hypothetical protein [Nicotiana tabacum] Seq. No. 142199 Seq. ID LIB3168-011-P1-K1-D6 Method BLASTX NCBI GI q112682 BLAST score 544 6.0e-56 E value Match length 116 88 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir \$08510 NCBI Description cruciferin precursor (CRB) - Arabidopsis thaliana >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 142200 Seq. ID LIB3168-011-P1-K1-D7 Method BLASTN NCBI GI q3046855 BLAST score 385 E value 0.0e+00 389 Match length 100 % identity NCBI Description Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone: MSL1, complete sequence [Arabidopsis thaliana] Seq. No. 142201 LIB3168-011-P1-K1-D8 Seq. ID BLASTX Method NCBI GI g3819164 BLAST score 520 E value 4.0e-53 Match length 119 % identity NCBI Description (AJ012318) cytosolic chaperonin, delta-subunit [Glycine max] Seq. No. 142202 LIB3168-011-P1-K1-D9 Seq. ID Method BLASTX NCBI GI g2245076

```
2.0e-70
E value
Match length
                  128
% identity
                  99
NCBI Description
                  (Z97343) GTP-binding RAB2A protein [Arabidopsis thaliana]
                  142203
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-E1
Method
                  BLASTN
NCBI GI
                  g2341023
BLAST score
                  243
                  1.0e-134
E value
                  390
Match length
                  100
% identity
                  Sequence of BAC F19P19 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142204
Seq. ID
                  LIB3168-011-P1-K1-E10
Method
                  BLASTX
NCBI GI
                  g4262250
                  673
BLAST score
E value
                  5.0e-71
                  129
Match length
% identity
                  100
NCBI Description
                  (AC006200) putative aldolase [Arabidopsis thaliana]
                  142205
Seq. No.
                  LIB3168-011-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  540
                  2.0e-55
E value
Match length
                  126
% identity
                  83
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142206
                  LIB3168-011-P1-K1-E2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3396079
BLAST score
                  376
E value
                  3.0e-36
                  72
Match length
% identity
                   (AF080173) inositol 1,3,4-trisphosphate 5/6-kinase
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  · 142207
Seq. ID
                  LIB3168-011-P1-K1-E3
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  412
E value
                  2.0e-40
```

```
Match length
                  112
% identity
                  74
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142208
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-E4
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  506
E value
                  2.0e-51
Match length
                  125
% identity
                  79
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb_CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142209
                  LIB3168-011-P1-K1-E6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  699
E value
                  4.0e-74
Match length
                  132
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142210
                  LIB3168-011-P1-K1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g82051
BLAST score
                  313
E value
                  7.0e-29
Match length
                  119
% identity
                  lipid body-associated membrane protein - carrot
NCBI Description
                  >gi 259453 bbs 117620 (S47635) lipid body membrane
                  protein=DC 59 [Daucus carota=carrots, var Juwarot, Peptide,
                  180 aa] [Daucus carota]
                  142211
Seq. No.
                  LIB3168-011-P1-K1-E9
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  322
                  7.0e-30
E value
Match length
                  60
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

## cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  142212
                  LIB3168-011-P1-K1-F1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  527
                  6.0e-54
E value
Match length
                  125
% identity
                  82
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142213
Seq. No.
                  LIB3168-011-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4490732
                  340
BLAST score
E value
                  5.0e-32
                  72
Match length
% identity
                  (AL035709) phosphoenolpyruvate carboxykinase (ATP)-like
NCBI Description
                  protein [Arabidopsis thaliana]
                  142214
Seq. No.
                  LIB3168-011-P1-K1-F11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  432
                  9.0e-43
E value
Match length
                  105
                  82
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142215
Seq. No.
                  LIB3168-011-P1-K1-F2
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  412
                  2.0e-40
E value
                  112
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142216
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-F3
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  663
E value
                  7.0e-70
```

E value

0.0e + 00

```
Match length
                  127
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142217
Seq. ID
                  LIB3168-011-P1-K1-F4
Method
                  BLASTX
NCBI GI
                  g2058456
BLAST score
                  376
                  3.0e-36
E value
Match length
                  74
                  100
% identity
                   (U66408) GTP-binding protein [Arabidopsis thaliana]
NCBI Description
                  >gi 2345150_gb_AAB67830_ (AF014822) developmentally
                  regulated GTP binding protein [Arabidopsis thaliana]
                  142218
Seq. No.
                  -LIB3168-011-P1-K1-F5
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
                  658
BLAST score
                  3.0e-69
E value
Match length
                  126
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142219
Seq. No.
                  LIB3168-011-P1-K1-F6
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3063438
BLAST score
                  224
E value
                  1.0e-123
Match length
                  368
                  100
% identity
NCBI Description
                  Complete sequence of Arabidopsis F22013, complete sequence
                  [Arabidopsis thaliana]
                  142220
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-F8
Method
                  BLASTX
NCBI GI
                  g3201627
BLAST score
                  204
                  2.0e-30
E value
                  103
Match length
% identity
NCBI Description
                  (AC004669) putative SWH1 protein [Arabidopsis thaliana]
                  142221
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-G1
Method
                  BLASTN
NCBI GI
                  g3047074
BLAST score
                  376
```

```
Match length
                  388
                  99
% identity
NCBI Description Arabidopsis thaliana BAC F21E10
                  142222
Seq. No.
Seq. ID
                  LIB3168-011-P1-K1-G10
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  563
E value
                  4.0e-58
Match length
                  116
                  91
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142223
                  LIB3168-011-P1-K1-G11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  544
E value
                  6.0e-56
Match length
                  116
% identity
                  88
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142224
                  LIB3168-011-P1-K1-G2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  545
E value
                  5.0e-56
Match length
                  129
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142225
Seq. No.
                  LIB3168-011-P1-K1-G3
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4220510
BLAST score
                  280
                  1.0e-156
E value
                  304
Match length
% identity
                  97
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18
```

(ESSAII project)

Match length

111

```
Seq. No.
                  142226
                  LIB3168-011-P1-K1-G4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112740
BLAST score
                  271
E value
                  7.0e-24
Match length
                  119
                  52
% identity
                  NAPIN 2 PRECURSOR (1.7S SEED STORAGE PROTEIN)
NCBI Description
                  >gi 81691 pir A25997 napin precursor (napA) - rape
                  >gi 167153 (J02586) prepronapin [Brassica napus] >gi 167155
                   (J0\overline{2}798) napin [Brassica napus]
                  142227
Seq. No.
                  LIB3168-011-P1-K1-G6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  519
                  6.0e-53
E value
Match length
                  127
                  80
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142228
                  LIB3168-011-P1-K1-H10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g395203
BLAST score
                  72
E value
                  9.0e-33
Match length
                  80
                  49
% identity
NCBI Description A.thaliana 2S albumin gene isoforms 1 and 2, complete CDS's
                  142229
Seq. No.
                  LIB3168-011-P1-K1-H11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2564045
BLAST score
                  121
E value
                  2.0e-61
Match length
                  384
% identity
                  93
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K8K14, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142230
                  LIB3168-011-P1-K1-H2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  562
E value
                  5.0e-58
```

% identity 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604 pir S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis tha $\overline{l}$ iana] >gi 808936 emb CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 142231 Seq. ID LIB3168-011-P1-K1-H3 Method BLASTN NCBI GI q2351065 BLAST score 222 E value 1.0e-121 Match length 395 % identity 98

NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MHF15, complete sequence [Arabidopsis thaliana]

 Seq. No.
 142232

 Seq. ID
 LIB3168-011-P1-K1-H4

 Method
 BLASTX

 NCBI GI
 g1628583

NCBI GI g1628583 BLAST score 279 E value 2.0e-25 Match length 55 % identity 96

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

 Seq. No.
 142233

 Seq. ID
 LIB3168-011-P1-K1-H5

 Method
 BLASTX

 NCBI GI
 g1628583

 BLAST score
 362

 E value
 6.0e-35

E value 6.0e-35
Match length 69
% identity 99

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142234

Seq. ID LIB3168-011-P1-K1-H6

Method BLASTX
NCBI GI g135858
BLAST score 286
E value 1.0e-25
Match length 58
% identity 97

NCBI Description TONOPLAST INTRINSIC PROTEIN, ALPHA (ALPHA TIP)

>gi\_99760\_pir\_\_S22201 tonoplast intrinsic protein alpha Arabidopsis thaliana >gi\_16182\_emb\_CAA45114\_ (X63551)
tonoplast intrinsic protein: alpha-TIP(Ara) [Arabidopsis
thaliana] >gi\_166623 (M84343) tonoplast intrinsic protein
[Arabidopsis thaliana] >gi\_445128\_prf\_\_1908432A tonoplast

intrinsic protein alpha [Arabidopsis thaliana]

```
Seq. No.
                  142235
Seq. ID
                  LIB3168-011-P1-K1-H7
                  {\tt BLASTX}
Method
NCBI GI
                  g1628583
BLAST score
                  663
E value
                  7.0e-70
                  127
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142236
                  LIB3168-011-P1-K1-H8
Seq. ID
                  BLASTX
Method
                  'q4204299
NCBI GI
BLAST score
                  681
E value
                  5.0e-72
                  130
Match length
                  99
% identity
                   (AC003027) lcl_prt_seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  142237
                  LIB3168-011-P1-K1-H9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  614
E value
                  4.0e-64
                  130
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142238
Seq. No.
                  LIB3168-012-P1-K1-A1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
                  664
BLAST score
                  6.0e-70
E value
                  136
Match length
                  92
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142239
                  LIB3168-012-P1-K1-A10
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
```

Method

BLASTN

```
100
% identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    142240
Seq. No.
Seq. ID
                    LIB3168-012-P1-K1-A11
Method
                    BLASTX
NCBI GI
                    q4468994
BLAST score
                    695
E value
                    1.0e-73
                    127
Match length
                    100
% identity
                    (AL035605) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                    142241
                    LIB3168-012-P1-K1-A12
Seq. ID
                    BLASTX
Method
NCBI GI
                    g117822
BLAST score
                    517
E value
                    8.0e-53
Match length
                    120
% identity
                    82
NCBI Description
                   CYTOCHROME B6 >gi 65635 pir CBNT6
                    plastoquinol--plastocyanin reductase (EC 1.10.99.1) cytochrome b6 - common tobacco chloroplast
                    >gi_11858_emb_CAA77375_ (Z00044) cytochrome b6 [Nicotiana
tabacum] >gi_225226_prf__1211235BH cytochrome b6 [Nicotiana
                    tabacum]
Seq. No.
                    142242
                    LIB3168-012-P1-K1-A2
Seq. ID
Method
                    BLASTX
NCBI GI
                    g1628583
BLAST score
                    625
E value
                    2.0e-65
Match length
                    120
% identity
                    100
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    142243
                    LIB3168-012-P1-K1-A3
Seq. ID
                    BLASTX
Method
NCBI GI
                    g1628583
BLAST score
                    544
                    7.0e-56
E value
                    137
Match length
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    142244
Seq. No.
                    LIB3168-012-P1-K1-A4
Seq. ID
```

```
q1628582
NCBI GI
                  51
BLAST score
                  4.0e-20
E value
Match length
                  159
% identity
                  43
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                  (ATCRU3) gene, complete cds
Seq. No.
                  142245
                  LIB3168-012-P1-K1-A5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g226120
BLAST score
                  224
                  2.0e-18
E value
                  134
Match length
                  34
% identity
NCBI Description vicilin gene B [Saguinus oedipus]
Seq. No.
                  142246
                  LIB3168-012-P1-K1-A6
Seq. ID,
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  508
E value
                  1.0e-51
Match length
                  126
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142247
                  LIB3168-012-P1-K1-A7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  619
E value
                  1.0e-64 6
                  120
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142248
Seq. No.
                  LIB3168-012-P1-K1-A8
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4538990
BLAST score
                  168
                  2.0e-89
E value
                  410
Match length
                  99
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T5L19
NCBI Description
                   (ESSA project)
                  142249
Seq. No.
                  LIB3168-012-P1-K1-A9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
```

```
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142250
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-B10
                  BLASTN
Method
NCBI GI
                  g16231
BLAST score
                  68
                  2.0e-30
E value
                  80
Match length
                  97
% identity
                  Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                  >qi 166675 gb M37247 ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  142251
Seq. No.
                  LIB3168-012-P1-K1-B11
Seq. ID
                  BLASTN
Method
NCBI GI
                  g414549
                  38
BLAST score
                  6.0e-13
E value
Match length
                  45
                  98
% identity
                  Arabidopsis thaliana Columbia cytosolic triose phosphate
NCBI Description
                  isomerase (Atctimc) mRNA, complete cds
                  142252
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-B12
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  441
                  4.0e-44
E value
                  86
Match length
                  99
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  142253
Seq. No.
                  LIB3168-012-P1-K1-B2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2129659
                  416
BLAST score
                  7.0e-41
E value
                  129
Match length
                  70
% identity
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
```

(L40954) oleosin [Arabidopsis thaliana]

```
Seq. No.
                   142254
Seq. ID
                   LIB3168-012-P1-K1-B3
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   606
E value
                   4.0e-63
Match length
                   131
% identity
                   89
NCBI Description
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142255
Seq. ID
                   LIB3168-012-P1-K1-B4
Method
                   BLASTN
NCBI GI
                   g3399678
BLAST score
                   45
E value
                   1.0e-16
Match length
                   91
% identity
                   93
                   Arabidopsis thaliana chromosome 1 BAC F13M7 sequence,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
Seq. No.
                   142256
Seq. ID
                   LIB3168-012-P1-K1-B5
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   277
                   9.0e-25
E value
Match length
                   103
% identity
                   62
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142257
Seq. ID
                   LIB3168-012-P1-K1-B6
Method
                   BLASTN
NCBI GI
                   g3702739
BLAST score
                   140
E value
                   8.0e-73
Match length
                   223
                   90
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MXE2, complete sequence [Arabidopsis thaliana]
Seq. No.
                   142258
Seq. ID
                   LIB3168-012-P1-K1-B7
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   109
E value
                   7.0e-05
```

Seq. ID

```
Match length
                   64
% identity
                   98
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142259
Seq. No.
Seq. ID
                   LIB3168-012-P1-K1-B8
Method
                   BLASTX
NCBI GI
                   q133959
BLAST score
                   438
                   2.0e-43
E value
Match length
                   94
% identity
                   93
                   CHLOROPLAST 30S RIBOSOMAL PROTEIN S4 >gi_81526_pir__A30833
NCBI Description
                   ribosomal protein S4 - spinach chloroplast >gi 343377
                   (M16878) ribosomal protein S4 [Spinacia oleracea]
                   >gi 225464 prf 1303355A ribosomal protein S4 [Spinacia
                   oleracea]
Seq. No.
                   142260
Seq. ID
                  LIB3168-012-P1-K1-C1
Method
                  BLASTX
NCBI GI
                   q1628583
BLAST score
                   616
E value
                   2.0e-64
Match length
                   120
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142261
Seq. ID
                  LIB3168-012-P1-K1-C10
Method
                  BLASTX
NCBI GI
                   q1628583
BLAST score
                   625
E value
                   2.0e-65
Match length
                  120
% identity
                   100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142262
Seq. ID
                  LIB3168-012-P1-K1-C11
Method
                  BLASTN
NCBI GI
                  q3449329
BLAST score
                  123
E value
                  1.0e-62
Match length
                  411
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MDH9, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142263
```

LIB3168-012-P1-K1-C12

```
Method
                  BLASTX
NCBI GI
                  g1655424
BLAST score
                  461
E value
                  4.0e-46
Match length
                  89
% identity
                  99
                   (D83531) GDP dissociation inhibitor [Arabidopsis thaliana]
NCBI Description
                  >qi 3212878 (AC004005) GDP dissociation inhibitor
                  [Arabidopsis thaliana]
Seq. No.
                  142264
Seq. ID
                  LIB3168-012-P1-K1-C2
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  605
E value
                  5.0e-63
Match length
                  122
                  93
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142265
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-C4
Method
                  BLASTX
NCBI GI
                  q3169171
BLAST score
                  191
E value
                  2.0e-14
Match length
                  93
% identity
                   (AC004401) putative serine carboxypeptidase I [Arabidopsis
NCBI Description
                  thaliana] >gi_3445213 (AC004786) putative serine
                  carboxypeptidase I [Arabidopsis thaliana]
Seq. No.
                  142266
                  LIB3168-012-P1-K1-C5
Seq. ID
Method
                  BLASTN
NCBI GI
                  q16472
BLAST score
                  399
E value
                  0.0e+00
Match length
                  415
% identity
                  99
                  A.thaliana rRNA repeat unit, most frequent IGR type
NCBI Description
Seq. No.
                  142267
                  LIB3168-012-P1-K1-C6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2129659
BLAST score
                  366
E value
                  5.0e-35
Match length
                  127
% identity
                  oleosin, isoform 21K - Arabidopsis thaliana >gi_725260
NCBI Description
```

(L40954) oleosin [Arabidopsis thaliana]

```
Seq. No.
                    142268
                    LIB3168-012-P1-K1-C7
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    642
 E value
                    2.0e-67
 Match length
                    123
 % identity
 NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                    142269
 Seq. ID
                    LIB3168-012-P1-K1-C8
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    533
🗦 E value
                    1.0e-54
 Match length
                    135
                    79
 % identity
 NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi 2842495 emb_CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    142270
 Seq. No.
                    LÍB3168-012-P1-K1-C9
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g112681
 BLAST score
                    581
                    3.0e-60
 E value
 Match length
                    134
 % identity
                    84
 NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    142271
 Seq. ID
                   LIB3168-012-P1-K1-D1
 Method
                   BLASTX
 NCBI GI
                   g1628583
 BLAST score
                    484
 E value
                    6.0e-49
 Match length
                   113
 % identity
 NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142272
 Seq. No.
 Seq. ID
                   LIB3168-012-P1-K1-D10
 Method
                   BLASTX
 NCBI GI
                   g112743
 BLAST score
                   593
 E value
                   1.0e-61
 Match length
                   126
```

· 17433

```
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68856 pir NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                 142273
Seq. No.
                  LIB3168-012-P1-K1-D11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142274
Seq. ID
                  LIB3168-012-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142275
                  LIB3168-012-P1-K1-D2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2828183
BLAST score
                  210
E value
                  1.0e-114
                  395
Match length
                  89
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MPL12, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142276
Seq. ID
                  LIB3168-012-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  574
E value
                  2.0e-59
                  134
Match length
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
142277
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  548
E value
                  2.0e-56
                  138
Match length
                  79
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142278
Seq. No.
                  LIB3168-012-P1-K1-D5.
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112741
BLAST score
                  700
E value
                  4.0e-74
Match length
                  130
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712_emb CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  142279
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-D6
                  BLASTX
Method ·
NCBI GI
                  g3128180
BLAST score
                  576
E value
                  1.0e-59
Match length
                  119
                  99
% identity
                  (AC004521) citrate synthetase [Arabidopsis thaliana]
NCBI Description
                  142280
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  362
E value
                  2.0e-34
Match length
                  90
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142281
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-D8
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  526
                  9.0e-54
E value
```

```
Match length
                  128
% identity
                  80
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142282
Seq. ID
                  LIB3168-012-P1-K1-D9
Method
                  BLASTN
NCBI GI
                  q2351069
BLAST score
                  314
E value
                  1.0e-176
                  322
Match length
                  99
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MSH12, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142283
                  LIB3168-012-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142284
Seq. ID
                  LIB3168-012-P1-K1-E4
Method
                  BLASTN
NCBI GI
                  g3873174
BLAST score
                  412
E value
                  0.0e + 00
Match length
                  412
% identity
                  100
                  Genomic sequence for Arabidopsis thaliana BAC F14N23,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  142285
Seq. ID
                  LIB3168-012-P1-K1-E5
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  574
E value
                  2.0e-59
Match length
                  134
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
142286
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-E6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  504
E value
                  3.0e-51
Match length
                  139
                  73
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142287
Seq. No.
                  LIB3168-012-P1-K1-E7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  611
E value
                  9.0e-64
                  117
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142288
Seq. No.
                  LIB3168-012-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142289
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142290
Seq. ID
                  LIB3168-012-P1-K1-F10
Method
                  BLASTX
NCBI GI
                  g2129767
BLAST score
                  613
E value
                  6.0e-64
Match length
                  123
% identity
                  93
```

NCBI GI

q112682

```
vacuolar processing enzyme (EC 3.4.22.-) isozyme beta
NCBI Description
                   precursor - Arabidopsis thaliana >gi_1805364_dbj_BAA09615
                   (D61394) beta-VPE [Arabidopsis thaliana]
Seq. No.
                   142291
                   LIB3168-012-P1-K1-F11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1495251
BLAST score
                   692
E value
                   3.0e-73
Match length
                   137
% identity
                   100
                  (Z70314) heat-shock protein [Arabidopsis thaliana]
NCBI Description
                   142292
Seq. No.
Seq. ID
                   LIB3168-012-P1-K1-F12
Method
                   BLASTN
NCBI GI
                   g2924729
BLAST score
                   177
E value
                   6.0e-95
                   309
Match length
                   99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MNA5, complete sequence [Arabidopsis thaliana]
                 142293
Seq. No.
                  LIB3168-012-P1-K1-F2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   567
E value
                   1.0e-58
Match length
                   134
% identity
                   81
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   142294
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-F3
Method
                  BLASTX
NCBI GI
                   g112682
BLAST score
                   578
E value
                   7.0e-60
Match length
                   135
% identity
                   81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   142295
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-F4
                  BLASTX
Method
```

BLAST score

E value

630

6.0e-66

```
Match length
                  138
                  88
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142296
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142297
Seq. No.
Seq. ID
                  LIB3168-012-P1-K1-F6
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142298
Seq. ID
                  LIB3168-012-P1-K1-F7
                  BLASTX
Method
NCBI GI
                  q112682
BLAST score
                  544
                  7.0e-56
E value
Match length
                  116
                  88
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142299
Seq. ID
                  LIB3168-012-P1-K1-F8
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  100
NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana],

142300 Seq. No. Seq. ID LIB3168-012-P1-K1-F9 Method BLASTN NCBI GI g2262155 BLAST score 89 6.0e-43E value Match length 93 99 % identity NCBI Description DNA sequence of Arabidopsis thaliana BAC F5J6 from chromosome IV, complete sequence [Arabidopsis thaliana] 142301 Seq. No. Seq. ID LIB3168-012-P1-K1-G1 Method BLASTX NCBI GI g1628583 BLAST score 625 E value 2.0e-65 120 Match length 100 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 142302 Seq. No. Seq. ID LIB3168-012-P1-K1-G12 BLASTX Method NCBI GI g112739 BLAST score 338 E value 8.0e-32 105 Match length % identity 67 2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi\_395205\_emb\_CAA80871\_ (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana] >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2 precursor [Arabidopsis thaliana] 142303 Seq. No. LIB3168-012-P1-K1-G2 Seq. ID Method BLASTX NCBI GI g633890 BLAST score 371 1.0e-35 E value

Match length 88 % identity

(S72926) glucose and ribitol dehydrogenase homolog [Hordeum NCBI Description

vulgare]

142304 Seq. No.

Seq. ID LIB3168-012-P1-K1-G3

Method BLASTX NCBI GI q112681

BLAST score 452 E value 3.0e-45 Match length -115 % identity 77 NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir \$08509 cruciferin precursor (CRA1) - Arabidopsis thaliana >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana] 142305 Seq. No. Seq. ID LIB3168-012-P1-K1-G4 Method BLASTX NCBI GI g1628583 BLAST score 575 1.0e-59 E value Match length 117 95 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 142306 Seq. No. LIB3168-012-P1-K1-G5 Seq. ID BLASTX Method g1628583 NCBI GI BLAST score 625 E value 2.0e-65 120 Match length % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 142307 Seq. No. Seq. ID LIB3168-012-P1-K1-G6 Method BLASTX NCBI GI g1628583 BLAST score 625 E value 2.0e-65 Match length 120 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 142308 Seq. No. Seq. ID LIB3168-012-P1-K1-G8 Method BLASTX NCBI GI g137580

BLAST score 217 2.0e-17 E value

Match length 130 35 % identity

VICILIN PRECURSOR (ALPHA-GLOBULIN B) (CLONE C72) NCBI Description

>qi 72286 pir FWCNAB alpha-qlobulin B precursor (clone C72) - upland cotton >gi 167375 (M16891) vicilin precursor

## [Gossypium hirsutum] Seq. No. 142309 Seq. ID LIB3168-012-P1-K1-G9 Method BLASTX

NCBI GI g1628583
BLAST score 451
E value 1.0e-60
Match length 121
% identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142310

Seq. ID LIB3168-012-P1-K1-H1

Method BLASTX
NCBI GI g3334123
BLAST score 422
E value 1.0e-41
Match length 109
% identity 83

NCBI Description ATP SYNTHASE GAMMA CHAIN, MITOCHONDRIAL PRECURSOR

>gi\_1655480\_dbj\_BAA13599\_ (D88374) gamma subunit of mitochondrial F1-ATPase [Arabidopsis thaliana] >gi\_2924787

(AC002334) mitochondrial F1-ATPase, gamma subunit

[Arabidopsis thaliana]

Seq. No. 142311

Seq. ID LIB3168-012-P1-K1-H10

Method BLASTN
NCBI GI g2565435
BLAST score 323
E value 0.0e+00
Match length 355
% identity 100

NCBI Description Arabidopsis thaliana DegP protease mRNA, nuclear gene

encoding chloroplast protein, complete cds

Seq. No. 142312

Seq. ID LIB3168-012-P1-K1-H12

Method BLASTX
NCBI GI g1628583
BLAST score 625
E value 2.0e-65
Match length 120
% identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142313

Seq. ID LIB3168-012-P1-K1-H2

Method BLASTX
NCBI GI g2129657
BLAST score 287
E value 9.0e-26

E value

4.0e-67

```
88
    Match length
                      70
    % identity
                      oleosin isoform - Arabidopsis thaliana
    NCBI Description
                      >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
                      thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                      [Arabidopsis thaliana]
    Seq. No.
                      142314
                      LIB3168-012-P1-K1-H3
    Seq. ID
                      BLASTX
    Method
                      g2459432
    NCBI GI
                      522
    BLAST score
    E value
                      3.0e-53
                      98
    Match length
    % identity
                      (AC002332) CONSTANS-like protein [Arabidopsis thaliana]
    NCBI Description
Seq. No.
                      142315
                      LIB3168-012-P1-K1-H4
    Seq. ID
                      BLASTX.
    Method
    NCBI GI
                      q2961390
                      776
    BLAST score
                      4.0e-83
    E value
                      138
    Match length
    % identity
                      100
                       (AL022141) beta-galactosidase like protein [Arabidopsis
    NCBI Description
                      thaliana]
    Seq. No.
                      142316
    Seq. ID
                      LIB3168-012-P1-K1-H5
                      BLASTX
    Method
    NCBI GI
                      g1628583
    BLAST score
                      616
                      3.0e-64
    E value
    Match length
                      120
    % identity
                      99
                      (U66916) 12S cruciferin seed storage protein [Arabidopsis
    NCBI Description
                      thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                      cruciferin seed storage protein [Arabidopsis thaliana]
    Seq. No.
                      142317
                      LIB3168-012-P1-K1-H6
    Seq. ID
                      BLASTN
    Method
    NCBI GI
                      g2264311
    BLAST score
                      65
    E value
                      6.0e-28
                      141
    Match length
                      94
    % identity
                      Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
    NCBI Description
                      MLN1, complete sequence [Arabidopsis thaliana]
    Seq. No.
                      142318
                      LIB3168-012-P1-K1-H7
    Seq. ID
                      BLASTX
    Method
                      g1628583
    NCBI GI
    BLAST score
                      640
```

Method

```
Match length
                  135
                  93
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis]
NCBI Description
                  thaliana] >gi_2842495_emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142319
                  LIB3168-012-P1-K1-H8
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2832698
                  351
BLAST score
                  1.0e-33
E value
Match length
                  65
% identity
                  97
                  (AL021713) starch synthase-like protein [Arabidopsis
NCBI Description
                  thaliana]
                  142320
Seq. No.
                  LIB3168-013-P1-K1-A1
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4753195
BLAST score
                  261
                  1.0e-145
E value
Match length
                  261
                  100
% identity
                  Arabidopsis thaliana BAC F15A18 from chromosome V near 68.5
NCBI Description
                  cM, complete sequence
Seq. No.
                  142321
                  LIB3168-013-P1-K1-A10
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  229
E value
                  2.0e-19
Match length
                  59
                  75
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142322
                  LIB3168-013-P1-K1-A12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  659
                  2.0e-69
E value
                  141
Match length
                  91
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142323
Seq. No.
                  LIB3168-013-P1-K1-A2
Seq. ID
```

BLASTX

NCBI GI

g112681

```
NCBI GI
                  g112682
BLAST score
                  553
                  6.0e-57
E value
Match length
                  126
% identity
                  85
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142324
Seq. ID
                  LIB3168-013-P1-K1-A3
Method
                  BLASTX
NCBI GI
                  g112737
                                                        . .
BLAST score
                  588
E value
                  5.0e-61
Match length
                  140
% identity
                  81
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                 precursor [Arabidopsis thaliana]
Seq. No. "
                  142325
Seq. ID
                  LIB3168-013-P1-K1-A4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  635
E value
                  1.0e-66
                  137
Match length
% identity
                  91
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142326
                  LIB3168-013-P1-K1-A5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  579
E value
                  6.0e-60
Match length
                  136
                  81
% identity
                 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142327
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-A6
Method
                  BLASTX
```

```
BLAST score
                  162
                   4.0e-11
E value
Match length
                  85
% identity
                  49
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{1}iana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142328
                  LIB3168-013-P1-K1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  563
E value
                  3.0e-58
Match length
                  119
% identity
                  91
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142329
                  LIB3168-013-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  600
E value
                  2.0e-62
Match length
                  120
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142330
Seq. ID
                  LIB3168-013-P1-K1-B1
Method
                  BLASTN
NCBI GI
                  q4097693
BLAST score
                  47
E value
                  2.0e-17
Match length
                  59
% identity
                  Arabidopsis thaliana prohibitin 1 (Atphb1) gene, complete
NCBI Description
Seq. No.
                  142331
Seq. ID
                  LIB3168-013-P1-K1-B10
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  595
E value
                  7.0e-62
Match length
                  138
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
```

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

Method

BLASTX

## storage protein [Arabidopsis thaliana]

```
142332
Seq. No.
                  LIB3168-013-P1-K1-B11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142333
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-B12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142334
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-B2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142335
Seq. ID
                  LIB3168-013-P1-K1-B3
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  651
E value
                  2.0e-68
Match length
                  132
                  91
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142336
                  LIB3168-013-P1-K1-B4
Seq. ID
```

300

```
NCBI GI
                    g1628583
  BLAST score
                    747
  E value
                    1.0e-79
  Match length
                    141
                    100
  % identity
  NCBI Description
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
  Seq. No.
                    142337
                    LIB3168-013-P1-K1-B6
  Seq. ID
                    BLASTX
  Method
  NCBI GI
                    q1628583
                    93
  BLAST score
                    5.0e-03
  E value
  Match length
                    72
                    100
  % identity
  NCBI Description
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                    142338
                    LIB3168-013-P1-K1-B7
  Seq. ID
  Method
                    BLASTX
                    g1628583
  NCBI GI
  BLAST score
                    625
  E value
                    2.0e-65
  Match length
                    120
                    100
  % identity
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
  NCBI Description
                    thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
  Seq. No.
                    142339
  Seq. ID
                    LIB3168-013-P1-K1-B8
  Method
                    BLASTX
  NCBI GI
                    q112682
  BLAST score
                    628
  E value
                    1.0e-65
  Match length
                    128
  % identity
                    91
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
  NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
                    142340
  Seq. No.
                    LIB3168-013-P1-K1-B9
  Seq. ID
  Method
                    BLASTX
  NCBI GI
                    q1628583
BLAST score
                    625
  E value
                    2.0e-65
                    120
  Match length
                    1,00
  % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
  NCBI Description
```

thaliana] >gi 2842495\_emb\_CAA16892\_ (AL021749) 12S

## cruciferin seed storage protein [Arabidopsis thaliana]

```
142341
 Seq. No.
Seq. ID
                    LIB3168-013-P1-K1-C1
 Method
                    BLASTX
 NCBI GI
                    q112682
 BLAST score
                    648
                    5.0e-68
 E value
                    143
 Match length
                    87
 % identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
 NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    142342
                    LIB3168-013-P1-K1-C10
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    q112681
 BLAST score
                    497
                    2.0e-50
 E value
                    118
 Match length
                    82
 % identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
 NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    142343
                    LIB3168-013-P1-K1-C11
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    q3522956
 BLAST score
                    389
                    1.0e-37
 E value
                    130
 Match length
                    54
 % identity
                    (AC004411) putative pectinacetylesterase precursor
 NCBI Description
                    [Arabidopsis thaliana]
 Seq. No.
                    142344
                    LIB3168-013-P1-K1-C12
 Seq. ID
                    BLASTX
 Method
 NCBI GI
                    q1351837
 BLAST score
                    672
 E value
                    7.0e-71
 Match length
                    140
                    94
 % identity
                    ACETYL-COENZYME A CARBOXYLASE CARBOXYL TRANSFERASE SUBUNIT
 NCBI Description
                    BETA >qi 2144155 pir S66564 acetyl CoA carboxylase type II
                    beta-carboxyltransferase chain - rape chloroplast
                    >gi_1069998_emb_CAA90747_ (Z50868) acetyl CoA carboxylase carboxyltransferase (beta subunit) [Brassica napus]
                    >gi 1589046 prf 2210244G Ac-CoA carboxylase:SUBUNIT=beta
```

[Brassica napus]

```
142345
Seq. No.
                  LIB3168-013-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142346
Seq. No.
                  LIB3168-013-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value ·
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142347
Seq. No.
                  LIB3168-013-P1-K1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3850914
BLAST score
                  558
                  2.0e-57
E value
Match length
                  118
% identity
                  95
                  (AF060397) ATP synthase beta subunit [Stirlingia latifolia]
NCBI Description
Seq. No.
                  142348
Seq. ID
                  LIB3168-013-P1-K1-C5
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  595
                  7.0e-62
E value
                  138
Match length
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142349
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  612
E value
                  7.0e-64
Match length
                  130
% identity
                  88
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
```

```
cruciferin precursor (CRB) - Arabidopsis thaliana >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed storage protein [Arabidopsis thaliana]
```

```
142350
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-C7
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  619
                  1.0e-64
E value
                  120
Match length
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142351
Seq. No.
                  LIB3168-013-P1-K1-C8
Seq. ID
                  BLASTX
Method
NCBI GI
                  q2129657
BLAST score
                  415
E value
                  9.0e-41
                  113
Match length
                  77
% identity
                  oleosin isoform - Arabidopsis thaliana
NCBI Description
                  >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
                  thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                  [Arabidopsis thaliana]
                  142352
Seq. No.
                  LIB3168-013-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142353
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-D10
Method
                  BLASTX
NCBI GI
                  g112681
                  592
BLAST score
                  2.0e-61
E value
                  121
Match length
                  93
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
```

Seq. No. 142354

storage protein [Arabidopsis thaliana]

Method NCBI GI

```
LIB3168-013-P1-K1-D11
Seq. ID
                  BLASTX
Method
                  g112741
NCBI GI
BLAST score
                  709
E value
                  3.0e-75
Match length
                  132
% identity
                  100
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  142355
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142356
Seq. ID
                  LIB3168-013-P1-K1-D2
Method
                  BLASTN
NCBI GI
                  g395203
BLAST score
                  60
E value
                  4.0e-25
Match length
                  202
                  82
% identity
                  A.thaliana 2S albumin gene isoforms 1 and 2, complete CDS's
NCBI Description
Seq. No.
                  142357
                  LIB3168-013-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  636
E value
                  1.0e-66
Match length
                  137
                  90
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >qi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >qi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142358
Seq. ID
                  LIB3168-013-P1-K1-D4
```

BLASTX

g860891

```
BLAST score
                   425
E value
                   6.0e-42
Match length
                  92
% identity
                  89
NCBI Description
                   (X87636) PSII cytochome b559 alpha chain [Beta vulgaris]
                  >qi 860897 emb CAA60972 (X87637) PSII cytochrome b599
                  alpha chain [Beta vulgaris]
Seq. No.
                  142359
Seq. ID
                  LIB3168-013-P1-K1-D5
Method
                  BLASTX
NCBI GI
                  q3335169
BLAST score
                  707
E value
                  5.0e-75
Match length
                  134
% identity
                  98
NCBI Description
                   (AF067857) embryo-specific protein 1 [Arabidopsis thaliana]
                  >gi 4455197 emb CAB36520.1_ (AL035440) embryo-specific
                  protein 1 (ATS1) [Arabidopsis thaliana]
                  142360
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-D6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142361
                  LIB3168-013-P1-K1-D7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3157931
BLAST score
                  247
E value
                  5.0e-41
                  92
Match length
% identity
                  (AC002131) Similar to pyrophosphate-dependent
NCBI Description
                  phosphofuctokinase beta subunit gb Z32850 from Ricinus
                  communis. ESTs gb N65773, gb N649\overline{2}5 and gb F15232 come
                  from this gene. [Arabidopsis thaliana]
                  142362
Seq. No.
                  LIB3168-013-P1-K1-D8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  142363
Seq. ID
                  LIB3168-013-P1-K1-D9
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  566
E value
                  2.0e-58
Match length
                  136
                  81
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb_CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  142364
Seq. No.
                  LIB3168-013-P1-K1-E1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g1628582
                  57
BLAST score
E value
                  3.0e-23
Match length
                  166
% identity
                  87
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                  (ATCRU3) gene, complete cds
                  142365
Seq. No.
                  LIB3168-013-P1-K1-E10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  354
E value
                  1.0e-33
Match length
                  88
% identity
                  .78
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142366
                  LIB3168-013-P1-K1-E11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  538
E value
                  4.0e-55
Match length
                  141
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142367
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  g2129659
```

12

NCBI Description

```
BLAST score
                  336
                  2.0e-31
E value
Match length
                  64
% identity
                  100
NCBI Description
                  oleosin, isoform 21K - Arabidopsis thaliana >gi_725260
                  (L40954) oleosin [Arabidopsis thaliana]
                  142368
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-E2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  551
E value
                  1.0e-56
Match length
                  140
                  78
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142369
Seq. ID
                  LIB3168-013-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  564
E value
                  3.0e-58
Match length
                  132
                  81
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142370
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-E4
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  547
E value
                  3.0e-56
Match length
                  140
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142371
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-E5
Method
                  BLASTX
NCBI GI
                  g1628583
                  172
BLAST score.
E value
                  2.0e-12
Match length
                  71
% identity
```

(U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

NCBI GI

BLAST score

## cruciferin seed storage protein [Arabidopsis thaliana]

```
142372
Seq. No.
                  LIB3168-013-P1-K1-E6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  112
E value
                  3.0e-05
                  -67
Match length
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142373
Seq. No.
                  LIB3168-013-P1-K1-E7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  620
                  9.0e-65
E value
                  119
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142374
Seq. No.
                  LIB3168-013-P1-K1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  668
                  2.0e-70
E value
Match length
                  128
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142375
Seq. ID
                  LIB3168-013-P1-K1-E9
Method
                  BLASTX
NCBI GI
                  g112681
                  527
BLAST score
E value
                  6.0e-54
Match length
                  125
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142376
Seq. No.
                  LIB3168-013-P1-K1-F1
Seq. ID
Method
                  BLASTX
```

q1072480

135

```
2.0e-20
E value
Match length
                  72
% identity
                  60
NCBI Description
                  cruciferin 1 precursor - rape
Seq. No.
                  142377
                  LIB3168-013-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  506
                  2.0e-51
E value
                  120
Match length
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142378
                  LIB3168-013-P1-K1-F11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  413
E value
                  2.0e-40
Match length
                  110
% identity
                  79
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142379
                  LIB3168-013-P1-K1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142380
Seq. ID
                  LIB3168-013-P1-K1-F2
Method
                  BLASTX
NCBI GI
                  g112681
                  614
BLAST score
E value
                  4.0e-64
Match length
                  141
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__ S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{liana} >gi_808936_emb_CAA32493 (X14312) 12S seed
```

storage protein [Arabidopsis thaliana]

Seq. ID

```
142381
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-F3
Method
                  BLASTX
NCBI GI
                  g112681
                  596
BLAST score
                  6.0e-62
E value
Match length
                  138
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142382
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-F4
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  559
                  1.0e-57
E value
Match length
                  137
% identity
                  80
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142383
Seq. ID
                  LIB3168-013-P1-K1-F6
Method
                  BLASTN
                  g4757392
NCBI GI
                  329
BLAST score
E value
                  0.0e + 00
                  350
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, TAC clone:
NCBI Description
                  K14A17, complete sequence
                  142384
Seq. No.
                  LIB3168-013-P1-K1-F7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  504
                  3.0e-51
E value
Match length
                  121
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142385
```

LIB3168-013-P1-K1-F9

E value

Match length

% identity

3.0e-10 188

85



```
BLASTN
Method
NCBI GI
                  q2760171
BLAST score
                  149
E value
                  4.0e-78
Match length
                  357
% identity
                  97
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MPA24, complete sequence [Arabidopsis thaliana]
                  14238.6
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-G10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  648
                  4.0e-68
E value
                  128
Match length
% identity
                  98
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142387
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-G11
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  382
                  2.0e-37
E value
Match length
                  73
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142388
Seq. ID
                  LIB3168-013-P1-K1-G12
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  565
E value
                  2.0e-58
Match length
                  123
% identity
                  86
NCBI Description
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi 166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi 395202 emb CAA80869
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  142389
Seq. No.
                  LIB3168-013-P1-K1-G3
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3241926
BLAST score
                  35
```

```
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                    MSG15, complete sequence [Arabidopsis thaliana]
                    142390
 Seq. No.
                    LIB3168-013-P1-K1-G4
 Seq. ID
                    BLASTN
 Method
 NCBI GI
                    q4455321
 BLAST score
                    94
 E value
                    2.0e-45
 Match length
                    329
                    93
  % identity
                    Arabidopsis thaliana DNA chromosome 4, BAC clone F4I10
 NCBI Description
                     (ESSAII project)
  Seq. No.
                    142391
                    LIB3168-013-P1-K1-G6
  Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g112682
 BLAST score
                    279
 E value
                     3.0e-25
 Match length
                    72
                    72
  % identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
 NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
  Seq. No.
                    142392
  Seq. ID
                    LIB3168-013-P1-K1-G7
 Method
                    BLASTX
 NCBI GI
                    g112741
 BLAST score
                    721
 E value
                     1.0e-76
 Match length
                    134
 % identity
                     100
                    2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                     PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                    Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                     (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                    >gi_4490712_emb_CAB38846.1 (AL035680) NWMU3-2S albumin 3
                    precursor [Arabidopsis thaliana]
  Seq. No.
                    142393
                    LIB3168-013-P1-K1-G9
  Seq. ID
 Method
                    BLASTX
  NCBI GI
                    g112741
                     632
 BLAST score
  E value
                     3.0e-66
 Match length
                    119
  % identity
                     99
                     2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
  NCBI Description
                     PROTEIN) >gi_68855 pir NWMU3 2S albumin 3 precursor -
                    Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                     3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
```

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

Seq. No.

Seq. ID

142398

LIB3168-013-P1-K1-H7

```
precursor [Arabidopsis thaliana]
                  142394
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  560
                  1.0e-57
E value
                  136
Match length
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir_NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204_emb_CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  142395
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-H10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142396
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  617
                  2.0e-64
E válue
Match length
                  120
% identity
                  99
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142397
Seq. ID
                  LIB3168-013-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  667
E value
                  3.0e-70
Match length
                  132
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

>qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3

```
BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  195
                  6.0e-15
E value
Match length
                  75
% identity
                  97
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142399
Seq. No.
Seq. ID
                  LIB3168-013-P1-K1-H8
Method
                  BLASTN
NCBI GI
                  g4185128
BLAST score
                  215
                  1.0e-117
E value
Match length
                  357
                  99
% identity
                  Arabidopsis thaliana chromosome II P1 MSF3 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  142400
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-A1
Method
                  BLASTX
NCBI GI
                  g112740
BLAST score
                  271
                  7.0e-24
E value '
Match length
                  119
% identity
                  52
                  NAPIN 2 PRECURSOR (1.7S SEED STORAGE PROTEIN)
NCBI Description
                  >gi 81691 pir A25997 napin precursor (napA) - rape
                  >gi 167153 (J02586) prepronapin [Brassica napus] >gi 167155
                  (J02798) napin [Brassica napus]
Seq. No.
                  142401
                  LIB3168-014-P1-K1-A10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  546
E value
                  4.0e-56
                  133
Match length
                  80
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  142402
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-A11
                  BLASTX
Method
NCBI GI
                  g3123264
BLAST score
                  528
E value
                  5.0e-54
Match length
                  123
```

Seq. ID Method

```
% identity
NCBI Description
                  60S RIBOSOMAL PROTEIN L27 >gi 2244857 emb CAB10279
                  (Z97337) hypothetical protein [Arabidopsis thaliana]
                  142403
Seq. No.
                  LIB3168-014-P1-K1-A12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2252844
BLAST score
                  625
                  2.0e-65
E value
Match length
                  112
% identity
                  100
                  (AF013293) belongs to the cytochrome p450 family
NCBI Description
                  [Arabidopsis thaliana]
                  142404
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-A2
                  BLASTX
Method
NCBI GI
                  g112737
                  527
BLAST score
                  7.0e-54
E value
                  131
Match length
                  79
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  142405
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-A3
Method
                  BLASTX
NCBI GI
                  g1628583
                  590
BLAST score
                  3.0e-61
E value
                  147
Match length
% identity
                  80
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142406
Seq. ID
                  LIB3168-014-P1-K1-A4
Method
                  BLASTX
NCBI GI
                  q2605714
BLAST score
                  622
E value
                  5.0e-65
Match length
                  142
% identity
NCBI Description
                  (AF026275) beta-tonoplast intrinsic protein [Arabidopsis
                  thaliana]
Seq. No.
                  142407
```

LIB3168-014-P1-K1-A5

BLASTX

Seq. ID

```
NCBI GI
                  g3600031
BLAST score
                  555
E value
                  4.0e-57
Match length
                  133
% identity
                  (AF080119) similar to 2,4-dihydroxyhept-2-ene-1,7-dioic
NCBI Description
                  acid aldolases [Arabidopsis thaliana]
                  142408
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-A6
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142409
Seq. ID
                  LIB3168-014-P1-K1-A7
                  BLASTX
Method
NCBI GI
                  g1628583
                  532
BLAST score
                  2.0e-54
E value
Match length
                  136
                  78
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142410
                  LIB3168-014-P1-K1-A8
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  660
                  2.0e-69
E value
Match length
                  128
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142411
Seq. ID
                  LIB3168-014-P1-K1-A9
Method
                  BLASTX
NCBI GI
                  g633890
BLAST score
                  277
E value
                  7.0e-25
Match length
                  93
% identity
                  (S72926) glucose and ribitol dehydrogenase homolog [Hordeum
NCBI Description
                  vulgare]
Seq. No.
                  142412
```

LIB3168-014-P1-K1-B1

```
BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  569
                  8.0e-59
E value
Match length
                  133
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  tha\overline{\text{liana}} >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142413
Seq. No.
                  LIB3168-014-P1-K1-B10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  539
                  3.0e-55
E value
Match length
                  142
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{liana} >gi_808936_emb_CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142414
                  LIB3168-014-P1-K1-B11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  582
E value
                  2.0e-60
Match length
                  124
% identity
                  88
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142415
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-B2
Method
                  BLASTN
NCBI GI
                  g553039
                  217
BLAST score
                  1.0e-119
E value
                  298
Match length
                  99
% identity
NCBI Description Arabidopsis thaliana GF14 mRNA, complete cds
                  142416
Seq. No.
                  LIB3168-014-P1-K1-B3
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4376087
BLAST score
                  262
E value
                  1.0e-145
                  394
Match length
```

Method

BLASTX

```
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
                  fragment No
Seq. No.
                  142417
Seq. ID
                  LIB3168-014-P1-K1-B4
Method
                  BLASTN
NCBI GI
                  g2244788
BLAST score
                  389
                  0.0e+00
E value
Match length
                  422
                  98
% identity
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                  fragment No
                  142418
Seq. No.
                  LIB3168-014-P1-K1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  518
E value
                   9.0e-53
Match length
                  132
% identity
                  78
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142419
                  LIB3168-014-P1-K1-B7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  588
E value
                   5.0e-61
Match length
                  140
% identity
                  81
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142420
                  LIB3168-014-P1-K1-B9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4512690
BLAST score
                  296
E value
                  1.0e-166
Match length
                  311
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC F11A3 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
Seq. ID
                  142421
                  LIB3168-014-P1-K1-C1
```

```
NCBI GI
                  q4455223
                  327
BLAST score
                  2.0e-30
E value
Match length
                  113
                  38
% identity
                  (AL035440) putative DNA binding protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  142422
                  LIB3168-014-P1-K1-C10
Seq. ID
                  BLASTX
Method
                  q112682
NCBI GI
BLAST score
                  609
E value
                  2.0e-63
                  140
Match length
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142423
                  LIB3168-014-P1-K1-C11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  632
E value
                  3.0e-66
                  123
Match length
% identity
                  99
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142424
                  LIB3168-014-P1-K1-C12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g399013
BLAST score
                  520
                  5.0e-53
E value
Match length
                  102
                  100
% identity
                  ADP, ATP CARRIER PROTEIN 1 PRECURSOR (ADP/ATP TRANSLOCASE 1)
NCBI Description
                  (ADENINE NUCLEOTIDE TRANSLOCATOR 1) (ANT 1)
                  >gi 99658 pir S21313 ADP, ATP carrier protein - Arabidopsis
                  thaliana (fragment) >gi_16175_emb_CAA46518_ (X65549)
                  adenylate translocator [Arabidopsis thaliana]
                  >qi 445607 prf 1909354A adenylate translocator
                  [Arabidopsis thaliana]
```

 Seq. No.
 142425

 Seq. ID
 LIB3168-014-P1-K1-C2

 Method
 BLASTX

 NCBI GI
 g1628583

 BLAST score
 625

 E value
 2.0e-65

120

Match length

```
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142426
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-C3
                  BLASTX
Method
NCBI GI
                  g2129657
BLAST score
                  377
E verue
                  3.0e-36
                  105
Match length
% identity
                  76
                  oleosin isoform - Arabidopsis thaliana
NCBI Description
                  >gi 987014 emb CAA90877_ (Z54164) oleosin [Arabidopsis
                  thaliana] >gi 987016 emb_CAA90878_ (Z54165) oleosin
                  [Arabidopsis thaliana]
Seq. No.
                  142427
                  LIB3168-014-P1-K1-C5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  71
E value
                  2.0e-66
Match length
                  133
                  98
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142428
Seq. ID
                  LIB3168-014-P1-K1-C6
                  BLASTX
Method
NCBI GI
                  g112681
                  439
BLAST score
E value
                  1.0e-43
Match length
                  100
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi. 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142429
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  301
                  4.0e-47
E value
Match length
                  118
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. ID Method

```
Seq. No.
                  142430
Seq. ID
                  LIB3168-014-P1-K1-D1
Method
                  BLASTX
NCBI GI
                  q4056469
BLAST score
                  242
E value
                  1.0e-20
Match length
                  50
% identity
NCBI Description
                  (AC005990) Strong similarity to gb_M95166 ADP-ribosylation
                  factor from Arabidopsis thaliana. ESTs gb 225826,
                  gb_R90191, gb_N65697, gb_AA713150, gb T46332, gb AA040967,
                  gb AA712956, gb T46403, gb T46050, gb AI100391 and
                  gb Z25043 come from t
Seq. No.
                  142431
                  LIB3168-014-P1-K1-D10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  279
BLAST score
E value
                  5.0e-25
Match length
                  86
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142432
                  LIB3168-014-P1-K1-D11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  718
E value
                  3.0e-76
Match length
                  135
                  99
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142433
                  LIB3168-014-P1-K1-D12
Seq. ID
Method
                  BLASTX
                  q4204298
NCBI GI
BLAST score
                  568
E value
                  1.0e-58
                  138
Match length
% identity
                  (AC003027) lcl_prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  142434
```

LIB3168-014-P1-K1-D2

BLASTX

```
NCBI GI
                  g112681
BLAST score
                  591
E value
                  2.0e-61
Match length
                  137
                  84
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142435
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-D3
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  222
E value
                  1.0e-122
                  222
Match length
% identity
                  100
NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                  (ESSAII project)
                  142436
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-D5
Method
                BLASTX
                  g112739
NCBI GI
BLAST score
                  454
E value
                  3.0e-45
                  131
Match length
                  70
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                 . 142437
Seq. ID
                  LIB3168-014-P1-K1-D6
Method
                  BLASTX
NCBI GI
                  g2129659
BLAST score
                  187
E value
                  5.0e-19
                  82
Match length
                  71
% identity
NCBI Description oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
                  (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                  142438
                  LIB3168-014-P1-K1-D7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
```

100

% identity

BLAST score

```
(U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142439
Seq. ID
                   LIB3168-014-P1-K1-D8
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   562
                   5.0e-58
E value
Match length
                   133
                   83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142440
                  LIB3168-014-P1-K1-D9
Seq. ID
Method
                  BLASTN
NCBI GI
                   q3985931
BLAST score
                   420
E value
                   0.0e + 00
Match length
                   420
% identity
                   100
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K21H1, complete sequence [Arabidopsis thaliana]
                   142441
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-E1
                  BLASTX
Method
NCBI GI
                   q1628583
BLAST score
                   667
                   3.0e-70
E value
Match length
                   132
% identity
NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142442
Seq. ID
                   LIB3168-014-P1-K1-E10
Method
                  BLASTX
NCBI GI
                   q4544399
BLAST score
                   305
E value
                   7.0e-28
Match length
% identity
                   (AC007047) putative beta-ketoacyl-CoA synthase [Arabidopsis
NCBI Description
                  thaliana]
                   142443
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  q3108347
```

Method

BLASTX

```
2.0e-40
  E value
 Match length
                    83
- % identity
                    100
                    (AF061517) putative copper/zinc superoxide dismutase copper
 NCBI Description
                    chaperone [Arabidopsis thaliana]
  Seq. No.
                    142444
  Seq. ID
                    LIB3168-014-P1-K1-E12
 Method
                    BLASTX
 NCBI GI
                    g4006897
 BLAST score .
                    462
  E value
                    3.0e-46
                    142
 Match length
                    69
  % identity
                    (Z99708) globulin-like protein [Arabidopsis thaliana]
 NCBI Description
  Seq. No.
                    142445
                    LIB3168-014-P1-K1-E4
  Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g112682
 BLAST score
                    595
                    7.0e-62
 E value
                    138
 Match length
  % identity
                    82
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir_ S08510
 NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
                    142446
 Seq. No.
                    LIB3168-014-P1-K1-E5
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g112682
 BLAST score
                    609
 E value
                    2.0e-63
                    140
 Match length
                    82
  % identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
 NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    142447
                    LIB3168-014-P1-K1-E8
 Seq. ID
 Method
                    BLASTX
                    g2149640
 NCBI GI
 BLAST score
                    184
 E value
                    5.0e-14
                    76
 Match length
 % identity
                    (U91995) Argonaute protein [Arabidopsis thaliana]
 NCBI Description
 Seq. No.
                    142448
 Seq. ID
                    LIB3168-014-P1-K1-F10
```

NCBI Description

```
NCBI GI
                  q112682
BLAST score
                  562
                  6.0e-58
E · value
Match length
                  131
% identity
                  83
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142449
Seq. No.
                  LIB3168-014-P1-K1-F11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3449331
BLAST score
                  433
E value
                  0.0e+00
Match length
                  433
% identity
                  26
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MNC17, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142450
Seq. ID
                  LIB3168-014-P1-K1-F12
Method
                  BLASTN
NCBI GI
                  g2828185
BLAST score
                  401
E value
                  0.0e + 00
Match length
                  405
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MUD21, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142451
                  LIB3168-014-P1-K1-F2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  353
E value
                  1.0e-33
Match length
                  91
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142452
Seq. ID
                  LIB3168-014-P1-K1-F4
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  769
E value
                  3.0e-82
Match length
                  146
% identity
                  99
```

12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed
storage protein [Arabidopsis thaliana]

142453 Seq. No. LIB3168-014-P1-K1-F5 Seq. ID Method BLASTX NCBI GI g112681 BLAST score 541 2.0e-55 E value 145 Match length 79 % identity

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi 808936 emb CAA32493\_ (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 142454

Seq. ID LIB3168-014-P1-K1-F6

Method BLASTX
NCBI GI g4567265
BLAST score 177
E value 8.0e-13
Match length 57
% identity 58

NCBI Description (AC006841) putative kinesin protein [Arabidopsis thaliana]

Seq. No. 142455

Seq. ID LIB3168-014-P1-K1-F7

Method BLASTN
NCBI GI g4589436
BLAST score 391
E value 0.0e+00
Match length 399
% identity 99

NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:

MPA22, complete sequence

Seq. No. 142456

Seq. ID LIB3168-014-P1-K1-F8

Method BLASTX
NCBI GI g2738248
BLAST score 595
E value 7.0e-62

E value 7.0e-6
Match length 128
% identity 91

NCBI Description (U97200) cobalamin-independent methionine synthase

[Arabidopsis thaliana]

Seq. No. 142457

Seq. ID LIB3168-014-P1-K1-F9

Method BLASTN
NCBI GI g4206762
BLAST score 251
F value 1 0e-139

E value 1.0e-139 Match length 334 ~

Match length

```
% identity
NCBI Description
                  Arabidopsis thaliana cell wall-plasma membrane linker
                  protein homolog (CWLP) mRNA, complete cds
Seq. No.
                  142458
Seq. ID
                  LIB3168-014-P1-K1-G1
Method
                  BLASTX
NCBI GI
                  q1709006
BLAST score
                  318
E value
                  2.0e-29
Match length
                  69
% identity
                  87
                  S-ADENOSYLMETHIONINE SYNTHETASE 3 (METHIONINE
NCBI Description
                  ADENOSYLTRANSFERASE 3) (ADOMET SYNTHETASE 3) >gi 726032
                  (U17241) S-adenosylmethionine synthetase [Actinidia
                  chinensis]
                  142459
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-G10
Method
                  BLASTN
NCBI GI
                  g2924257
BLAST score
                  43
E value
                  7.0e-15
Match length
                  167
                  87
% identity
NCBI Description Tobacco chloroplast genome DNA
                  142460
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-G11
Method
                  BLASTX
NCBI GI
                  g2129579
BLAST score
                  671
E value
                  9.0e-71
Match length
                  129
                  98
% identity
                  Dwarf1 protein - Arabidopsis thaliana >gi 516043 (U12400)
NCBI Description
                  Dwarf1 [Arabidopsis thaliana]
Seq. No.
                  142461
                  LIB3168-014-P1-K1-G2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142462
Seq. No.
                  LIB3168-014-P1-K1-G3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  44
                  1.0e-21
E value
```

Method

```
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142463
                  LIB3168-014-P1-K1-G4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  606
E value
                  4.0e-63
Match length
                  147
                  80
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142464
Seq. ID
                  LIB3168-014-P1-K1-G5
                  BLASTN
Method
NCBI GI
                  g2842474
BLAST score
                  51
E value
                  1.0e-19
                  87
Match length
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
Seq. No.
                  142465
Seq. ID
                  LIB3168-014-P1-K1-G7
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  552
E value
                  7.0e-57
Match length
                  118
                  92
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142466
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  747
E value
                  1.0e-79
Match length
                  142
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142467
                  LIB3168-014-P1-K1-G9
Seq. ID
```

BLASTX

```
NCBI GI
                    g1628583
 BLAST score
                    625
                    2.0e 45
 E value
 Match length
                    120
  % identity
                    100
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                    thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    142468
  Seq. No.
                    LIB3168-014-P1-K1-H1
Seq. ID
                    BLASTX
 Method
                    g1628583
 NCBI GI
                    625
 BLAST score
 E value
                    2.0e-65
                    120
 Match length
                    100
  % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
  Seq. No.
                    142469
                    LIB3168-014-P1-K1-H10
  Seq. ID
 Method
                    BLASTX
 NCBI GI
                    q112741
 BLAST score
                    741
                    6.0e-79
 E value
 Match length
                    138
                    100
  % identity
                    2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
 NCBI Description
                    PROTEIN) >gi 68855 pir_NWMU3 2S albumin 3 precursor -
                    Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                    3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                    (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                    >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                    precursor [Arabidopsis thaliana]
                    142470
  Seq. No.
  Seq. ID
                    LIB3168-014-P1-K1-H11
 Method
                    BLASTX
  NCBI GI
                    g1628583
  BLAST score
                    618
                    1.0e-64
  E value
                    120
 Match length
                    99
  % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
  NCBI Description
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    142471
  Seq. No.
                    LIB3168-014-P1-K1-H12
  Seq. ID
                    BLASTX
 Method
  NCBI GI
                    g2494896
                    342
  BLAST score
  E value
                    2.0e-32
 Match length
                    62
```

97

% identity

NCBI Description EUKARYOTIC TRANSLATION INITIATION FACTOR 3 DELTA SUBUNIT (EIF-3 DELTA) (EIF3 P36) (TGF-BETA RECEPTOR INTERACTING PROTEIN 1) (TRIP-1) >gi\_2129749\_pir\_\_S60256 TGF-beta receptor interacting protein 1 homolog - Arabidopsis thaliana >gi 1036803 (U36765) TGF-beta receptor interacting

protein 1 homolog [Arabidopsis thaliana]

Seq. No. 142472

Seq. ID LIB3168-014-P1-K1-H2

BLASTX Method NCBI GI q1628583 BLAST score 123 2.0e-06 E value 78 Match length 100 % identity

(U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142473

Seq. ID LIB3168-014-P1-K1-H3

BLASTX Method q2129767 NCBI GI BLAST score 720 E value 2.0e-76 Match length 138 99 % identity

vacuolar processing enzyme (EC 3.4.22.-) isozyme beta NCBI Description

precursor - Arabidopsis thaliana >gi 1805364 dbj BAA09615

(D61394) beta-VPE [Arabidopsis thaliana]

Seq. No. 142474

Seq. ID LIB3168-014-P1-K1-H4

BLASTN Method NCBI GI q4582411 344 BLAST score 0.0e + 00E value 440 Match length 99 % identity

NCBI Description Arabidopsis thaliana chromosome 1 BAC T23K8 sequence,

complete sequence

Seq. No. 142475

Seq. ID LIB3168-014-P1-K1-H5

Method BLASTN NCBI GI q3269280 BLAST score 418 0.0e+00 E value 429 Match length 99 % identity

Arabidopsis thaliana DNA chromosome 4, P1 clone M4I22 NCBI Description

(ESSAII project)

142476 Seq. No.

Seq. ID LIB3168-014-P1-K1-H7

Method BLASTX NCBI GI g1903034

Seq. No.

```
BLAST score
                   209
E value
                   9.0e-17
Match length
                   87
                   48
% identity
NCBI Description
                   (X94625) amp-binding protein [Brassica napus]
                   142477
Seq. No.
Seq. ID
                  LIB3168-014-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                   613
E value
                   6.0e-64
Match length
                   123
% identity
                   96
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142478
Seq. ID
                  LIB3168-014-P1-K1-H9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142479
Seq. ID
                  LIB3168-015-P1-K1-A1
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  248
                  9.0e-22
E value
                  50
Match length
                  94
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142480
Seq. ID
                  LIB3168-015-P1-K1-A10
Method
                  BLASTX
NCBI GI
                  q21112
                  52
BLAST score
E value
                  5.0e-31
Match length
                  126
% identity
                  60
NCBI Description
                  (X59805) cruciferin [Raphanus sativus]
```

```
LIB3168-015-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2832644
BLAST score
                  375
                  5.0e-36
E value
Match length
                  73
% identity
                  100
                   (AL021710) teosinte branched1 - like protein [Arabidopsis
NCBI Description
                  thaliana]
                  142482
Seq. No.
Seq. ID
                  LIB3168-015-P1-K1-A12
Method
                  BLASTN
NCBI GI
                  g3063690
                  231
BLAST score
E value
                  1.0e-127
                  365
Match length
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F4D11
NCBI Description
                   (ESSAII project)
Seq. No.
                  142483
Seq. ID
                  LIB3168-015-P1-K1-A3
Method
                  BLASTN
NCBI GI
                  g2947056
BLAST score
                  90
E value
                  5.0e-43
                  98
Match length
% identity
                  98
                  Arabidopsis thaliana chromosome II BAC T20F6 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142484
Seq. ID
                  LIB3168-015-P1-K1-A4
Method
                  BLASTN
NCBI GI
                  g2281648
BLAST score
                  174
E value
                  4.0e-93
Match length
                  178
% identity
                  99
                  Arabidopsis thaliana AP2 domain containing protein RAP2.12
NCBI Description
                  mRNA, partial cds
                  142485
Seq. No.
                  LIB3168-015-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  167
E value
                  1.0e-57
Match length
                  126
% identity
                  93
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142486
Seq. ID
                  LIB3168-015-P1-K1-A6
```

```
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  512
E value
                  3.0e-52
Match length
                  107
% identity
                  93
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142487
Seq. No.
Seq. ID
                  LIB3168-015-P1-K1-A7
Method
                  BLASTX
NCBI GI
                  g1628583
                  550
BLAST score
                  1.0e-56
E value
                  115
Match length
                  93
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142488
Seq. ID
                  LIB3168-015-P1-K1-A8
Method
                  BLASTX
                  g1628583
NCBI GI
                  407
BLAST score
E value
                  8.0e-40
Match length
                  109
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142489
                  LIB3168-015-P1-K1-A9
Seq. ID
                  BLASTN
Method
NCBI GI
                  g1628582
BLAST score
                  76
E value
                  9.0e-35
Match length
                  187
                  43
% identity
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                  (ATCRU3) gene, complete cds
Seq. No.
                  142490
                  LIB3168-015-P1-K1-B10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  605
E value
                  5.0e-63
Match length
                  128
% identity
                  91
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

Method

```
Seq. No.
                  142491
Seq. ID
                  LIB3168-015-P1-K1-B11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  55
E value
                  1.0e-57
Match length
                  115
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142492
Seq. No.
                  LIB3168-015-P1-K1-B12
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  355
                  6.0e-34
E value
Match length
                  83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142493
                  LIB3168-015-P1-K1-B4
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  565
                  2.0e-58
E value
Match length
                  114
                  94
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142494
Seq. No.
Seq. ID
                  LIB3168-015-P1-K1-B5
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  519
                  4.0e-53
E value
                  108
Match length
                  92
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142495
Seq. No.
                  LIB3168-015-P1-K1-B6
Seq. ID
```

BLASTX

```
NCBI GI
                  g2623962
BLAST score
                  426
E value
                  5.0e-42
Match length
                  89
% identity
                  (Y12540) isocitrate dehydrogenase (NADP+) [Apium
NCBI Description
                  graveolens]
                  142496
Seq. No.
                  LIB3168-015-P1-K1-B7
Seq. ID -
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  257
E value
                  8.0e-23
Match length
                  47
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142497
Seq. ID
                  LIB3168-015-P1-K1-B8
Method
                  BLASTN
NCBI GI
                  g3821780
BLAST score
                  36
                  8.0e-11
E valué
                  36
Match length
% identity
                  100
NCBI Description Xenopus laevis cDNA clone 27A6-1
Seq. No.
                  142498
Seq. ID
                  LIB3168-015-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  224
                  7.0e-19
E value
                  42
Match length
                  100
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  142499
Seq. No.
Seq. ID
                  LIB3168-015-P1-K1-C1
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  496
E value
                  2.0e-50
Match length
                  108
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
142500.
 Seq. No.
Seq. ID
                   LIB3168-015-P1-K1-C10
Method ·
                   BLASTX
NCBI GI
                   g2443876
BLAST score
                   216
                   2.0e-17
E value
Match length
                   132
 % identity
                   45
                   (AC002294) Hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   142501
 Seq. No.
Seq. ID
                   LIB3168-015-P1-K1-C11
Method
                   BLASTN
                   g4006885
NCBI GI
BLAST score
                   149
E value
                   4.0e-78
                   378
Match length
 % identity
                   98
                   Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
NCBI Description
                   fragment No
Seq. No.
                   142502
Seq. ID
                   LIB3168-015-P1-K1-C2
Method
                   BLASTN
NCBI GI
                   g16231
BLAST score
                   38
E value
                   3.0e-12
Match length
                   154
 % identity
                   Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                   >gi 166675 gb M37247 ATHCRA1AA A.thaliana 12S storage
                   protein CRA1 gene, exons 1-4
 Seq. No.
                   142503
Seq. ID
                   LIB3168-015-P1-K1-C3
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   185
E value
                   5.0e-29
Match length
                   84
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142504
                   LIB3168-015-P1-K1-C5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   135
E value
                   5.0e-26
                   108
Match length
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
```

Match length

```
Seq. No.
                  142505
Seq. ID
                  LIB3168-015-P1-K1-C6
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  518
E value
                  8.0e-54
Match length
                  112
                  95
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142506
                  LIB3168-015-P1-K1-C7
Seq. ID
                  BLASTX
Method
                  q1628583
NCBI GI
BLAST score
                  170
E value
                  1.0e-12
                  60
Match length
                  57
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142507
Seq. No.
                  LIB3168-015-P1-K1-C8
Seq. ID
Method
                  BLASTX
                  q112682
NCBI GI
BLAST score
                  464
                  1.0e-46
E value
                  100
Match length
                  87
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142508
Seq. No.
Seq. ID
                  LIB3168-015-P1-K1-C9
                  BLASTN
Method
NCBI GI
                  q3548797
BLAST score
                  204
E value
                  1.0e-111
Match length
                  359
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC T18E12 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  142509
Seq. No.
                  LIB3168-015-P1-K1-D1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  297
E value
                  2.0e-27
```

```
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana] ``
                  142510
Seq. No.
Seq. ID
                  LIB3168-015-P1-K1-D10
Method
                  BLASTN
NCBI GI
                  g4159701
                  325
BLAST score
                  0.0e+00
E value
                  366
Match length
                  100
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K22G18, complete sequence
Seq. No.
                  142511
                  LIB3168-015-P1-K1-D11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1169476
BLAST score
                  611
E value
                  1.0e-63
Match length
                  117
% identity
                  100
NCBI Description
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
                  ADHESION PROTEIN 1) (PVN1) >qi 439577 (U04632)
                  vitronectin-like adhesion protein [Nicotiana tabacum]
Seq. No.
                  142512
Seq. ID
                  LIB3168-015-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  309
E value
                  2.0e-28
Match length
                  70
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142513
                  LIB3168-015-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  77
E value
                  3.0e-42
Match length
                  125
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142514
                  LIB3168-015-P1-K1-D5
Seq. ID
                  BLASTX
Method
                  q1061040
NCBI GI
BLAST score
                  544
```

Seq. ID

Method



```
E value
                  7.0e-56
                  113
Match length
                  88
% identity
                  (X89867) sterol-C-methyltransferase [Arabidopsis thaliana]
NCBI Description
                  >gi 1587694 prf 2207220A sterol C-methyltransferase
                  [Arabidopsis thaliana]
Seq. No.
                  142515
Seq. ID
                  LIB3168-015-P1-K1-D6
                  BLASTX
Method
NCBI GI
                  q2129659
BLAST score
                  223
                  2.0e-18
E value
                  99
Match length
                  54
% identity
                  oleosin, isoform 21K - Arabidopsis thaliana >gi_725260
NCBI Description
                  (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                  142516
Seq. ID
                  LIB3168-015-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  q1628583
                  234
BLAST score
                  7.0e-20
E value
                  70
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142517
Seq. No.
                  LIB3168-015-P1-K1-D8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2961390
BLAST score
                  413
E value
                  9.0e-41
                  79
Match length
% identity
                  (AL022141) beta-galactosidase like protein [Arabidopsis
NCBI Description
                  thaliana]
                  142518
Seq. No.
Seq. ID
                  LIB3168-015-P1-K1-D9
                  BLASTX
Method .
NCBI GI
                  g2129657
                  216
BLAST score
                  1.0e-17
E value
                  61
Match length
                  75
% identity
NCBI Description
                  oleosin isoform - Arabidopsis thaliana
                  >gi_987014_emb_CAA90877 (Z54164) oleosin [Arabidopsis
                  thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                  [Arabidopsis thaliana]
                  142519
Seq. No.
```

LIB3168-015-P1-K1-E1

BLASTX

NCBI GI q3335169 BLAST score 502 E value 6.0e-51 Match length 111 79 % identity (AF067857) embryo-specific protein 1 [Arabidopsis thaliana] NCBI Description >gi 4455197\_emb\_CAB36520.1\_ (AL035440) embryo-specific protein 1 (ATS1) [Arabidopsis thaliana] Seq. No. 142520 LIB3168-015-P1-K1-E10 Seq. ID BLASTX Method NCBI GI q112741 637 BLAST score 9.0e-67 E value 118 Match length 99 % identity 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201 emb CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana] 142521 Seq. No. Seq. ID LIB3168-015-P1-K1-E11 Method BLASTX NCBI GI g112682 BLAST score 665 E value 4.0e-70 Match length 137 92 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510 NCBI Description cruciferin precursor (CRB) - Arabidopsis thaliana >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed storage protein [Arabidopsis thaliana] 142522 Seq. No. LIB3168-015-P1-K1-E12 Seq. ID Method BLASTX g135858 NCBI GI

Method BLASTX
NCBI GI g135858
BLAST score 349
E value 5.0e-33
Match length 68
% identity 100

NCBI Description TONOPLAST INTRINSIC PROTEIN, ALPHA (ALPHA TIP)

>gi\_99760\_pir\_\_S22201 tonoplast intrinsic protein alpha Arabidopsis thaliana >gi\_16182\_emb\_CAA45114\_ (X63551)
tonoplast intrinsic protein: alpha-TIP(Ara) [Arabidopsis
thaliana] >gi\_166623 (M84343) tonoplast intrinsic protein
[Arabidopsis thaliana] >gi\_445128\_prf\_\_1908432A tonoplast

intrinsic protein alpha [Arabidopsis Thaliana]

Seq. No. 142523

Seq. ID LIB3168-015-P1-K1-E2

```
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   283
                   2.0e-36
E value
Match length
                   101
 % identity
                   84
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142524
Seq. No.
Seq. ID
                   LIB3168-015-P1-K1-E3
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   566
                   2.0e-58
E value
Match length
                   119
                   92
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                   142525
                   LIB3168-015-P1-K1-E4
Seq. ID
                   BLASTX
Method
                   g1628583
. NCBI GI
BLAST score
                   76
E value
                   3.0e-38
Match length
                   98
                   86
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142526
Seq. No.
                   LIB3168-015-P1-K1-E7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   444
                   2.0e-44
E value
Match length
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142527
Seq. No.
Seq. ID
                   LIB3168-015-P1-K1-E8
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   49
E value
                   7.0e-58
Match length
                   128
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

20....

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
142528
Seq. No.
Seq. ID
                  LIB3168-015-P1-K1-E9
Method
                  BLASTX
NCBI GI
                   g1628583
BLAST score
                   44
E value
                   2.0e-54
Match length
                   112
                   98 -
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142529
                  LIB3168-015-P1-K1-F1
Seq. ID
Method
                  BLASTX
NCBI GI
                   g21112
                   225
BLAST score
E value
                   2.0e-18
Match length
                   48
% identity
NCBI Description
                   (X59805) cruciferin [Raphanus sativus]
Seq. No.
                   142530
Seq. ID
                   LIB3168-015-P1-K1-F11
Method
                  BLASTN
NCBI GI
                   q166909
BLAST score
                   244
E value
                   1.0e-135
Match length
                   286
% identity
                   100
                  Arabidopsis thaliana beta-9 tubulin (TUB9) gene, complete
NCBI Description
Seq. No.
                   142531
                   LIB3168-015-P1-K1-F12
Seq. ID
Method
                  BLASTN
NCBI GI
                   g2262155
BLAST score
                   331
                   0.0e + 00
E value
Match length
                   402
% identity
                   98
                   DNA sequence of Arabidopsis thaliana BAC F5J6 from
NCBI Description
                   chromosome IV, complete sequence [Arabidopsis thaliana]
Seq. No.
                   142532
                  LIB3168-015-P1-K1-F2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g118926
BLAST score
                  283
                   3.0e-25
E value
Match length
                  111
                  52
% identity
                  DESSICATION-RELATED PROTEIN CLONE PCC13-62 PRECURSOR
NCBI Description
                  >gi_320600_pir__E45509 desiccation-related protein (clone
                  PCC13-62) - Craterostigma plantagineum >gi_167479 (M62991)
                  dessication-related protein [Craterostigma plantagineum]
```

Method

BLASTX

```
[Craterostigma plantagineum]
                   142533
Seq. No.
Seq. ID
                   LIB3168-015-P1-K1-F3
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   414
E value
                   7.0e-41
Match length
                   94
% identity
                   84
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142534
Seq. ID
                   LIB3168-015-P1-K1-F4
Method
                   BLASTN
NCBI GI
                   g16472
BLAST score
                   317
E value
                   1.0e-178
Match length
                   379
% identity
                   98
                  A.thaliana rRNA repeat unit, most frequent IGR type
NCBI Description
                   142535
Seq. No.
                   LIB3168-015-P1-K1-F5
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4220640
BLAST score
                   286
E value
                   1.0e-160
Match length
                   384
                   96
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MPE11, complete sequence [Arabidopsis thaliana]
Seq. No.
                   142536
                   LIB3168-015-P1-K1-F6
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112682
BLAST score
                   638
E value
                   7.0e-67
Match length
                   140
                   87
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   142537
Seq. No.
Seq. ID
                   LIB3168-015-P1-K1-F8
```

>qi 227781 prf 1710351E abscisic acid responsive protein E

```
NCBI GI
                   q112681
 BLAST score
                   55
 E value
                    5.0e-46
 Match length
                   99
 % identity
                    98
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
 NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    tha\overline{1}iana] >gi_808936_emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
                    142538
 Seq. No.
 Seq. ID
                   LIB3168-015-P1-K1-F9
 Method
                   BLASTX
 NCBI GI
                   q112681
 BLAST score
                   555
                    3.0e-57
 E value
 Match length
                   131
                   82
 % identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
 NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                   142539
 Seq. ID
                   LIB3168-015-P1-K1-G10
 Method
                   BLASTN
 NCBI GI
                   q3869069
 BLAST score
                   181
 É value
                    3.0e-97
 Match length
                   397
                    100
 % identity
 NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                   MEB5, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    142540
 Seq. ID
                   LIB3168-015-P1-K1-G11
 Method
                   BLASTX
 NCBI GI
                   q1628583
 BLAST score
                   586
 E value
                   8.0e-61
 Match length
                   120
 % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                   142541
 Seq. ID
                   LIB3168-015-P1-K1-G12
 Method
                   BLASTX
 NCBI GI
                   g1531762
 BLAST score
                   195
                   6.0e-15
 E value
 Match length
                   51
                   75
 % identity
NCBI Description (Y07765) S-adenosylmethionine decarboxylase [Arabidopsis
```

## thaliana]

```
Seq. No.
                  142542
                  LIB3168-015-P1-K1-G3
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  671
E value
                  9.0e-71
                  138
Match length
                  94
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142543
Seq. No.
                  LIB3168-015-P1-K1-G4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  631
E value
                  5.0e-66
                  141
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142544
                  LIB3168-015-P1-K1-G5
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  548
                  2.0e-56
E value
Match length
                  103
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142545
Seq. ID
                  LIB3168-015-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  q464775
BLAST score
                  429
E value
                  2.0e-42
                  112
Match length
                  72
% identity
                  SUPEROXIDE DISMUTASE PRECURSOR (MN) >qi 542013 pir S39492
NCBI Description
                  superoxide dismutase - Para rubber tree >gi 348137 (L11707)
                  superoxide dismutase (manganese) [Hevea brasiliensis]
                  142546
Seq. No.
                  LIB3168-015-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  59
```

E value

Match length

% identity

2.0e-64 131

```
E value
                  5.0e-54
Match length
                  114
% identity
                  99
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142547
Seq. No.
Seq. ID
                  LIB3168-015-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  386
E value
                  2.0e-37
Match length
                  114
                  68
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142548
Seq. ID
                  LIB3168-015-P1-K1-G9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  371
E value
                  1.0e-35
Match length
                  92
                  79
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142549
                  LIB3168-015-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  584
E value
                  1.0e-60
Match length
                  120
% identity
                  94
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142550
Seq. No.
                  LIB3168-015-P1-K1-H12
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  618
```

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 cruciferin precursor (CRA1) - Arabidopsis thaliana >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 142551 Seq. ID LIB3168-015-P1-K1-H4 Method BLASTX NCBI GI q112682 615 BLAST score E value 3.0e-64 Match length 143 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510 NCBI Description cruciferin precursor (CRB) - Arabidopsis thaliana >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana] 142552 Seq. No. Seq. ID LIB3168-015-P1-K1-H5 Method BLASTX NCBI GI q1628583 BLAST score 593 E value 1.0e-61 Match length 141 % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 142553 Seq. ID LIB3168-015-P1-K1-H6 Method BLASTX NCBI GI q418908 BLAST score 182 E value 2.0e-13 Match length 75 % identity NCBI Description vicilin precursor - cacao Seq. No. 142554 LIB3168-015-P1-K1-H7 Seq. ID Method BLASTX NCBI GI q112682 BLAST score 690 5.0e-73 E value

138 Match length % identity

12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510 NCBI Description

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

142555 Seq. No.

```
LIB3168-015-P1-K1-H8
Seq. ID
Method
                  BLASTN
                  g3046849
NCBI GI
BLAST score
                  148
                   1.0e-77
E value
                  381
Match length
                   50
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K18L3, complete sequence [Arabidopsis thaliana]
                  142556
Seq. No.
                  LIB3168-015-P1-K1-H9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2347192
BLAST score
                  534
E value
                   1.0e-54
Match length
                  103
% identity
                   55
NCBI Description
                   (ACO02338) spliceosomal protein U2B isolog (Arabidopsis
                   thaliana]
                   142557
Seq. No.
Seq. ID
                  LIB3168-016-P1-K1-A1
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  256
E value
                   1.0e-22
Match length
                   55
                   91
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                  142558
Seq. ID
                  LIB3168-016-P1-K1-A12
Method
                  BLASTX
NCBI GI
                  q2160142
BLAST score
                  360
E value
                   3.0e-34
Match length
                  112
                   68
% identity
NCBI Description
                   (AC000375) Strong similarity to Arabidopsis APR2
                   (gb U56921). [Arabidopsis thaliana] >gi 2738758 (AF016283)
                  5'-adenylylsulfate reductase [Arabidopsis thaliana]
Seq. No.
                  142559
Seq. ID
                  LIB3168-016-P1-K1-A3
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  585
E value
                  1.0e-60
Match length
                  145
% identity
                  80
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

Seq. ID

## cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                   142560
Seq. ID
                   LIB3168-016-P1-K1-A4
Method
                   BLASTX
NCBI GI
                   g2129657
BLAST score
                   238
E value
                   5.0e-20
Match length
                   120
% identity ·
                   49
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   142561
                   LIB3168-016-P1-K1-A5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g131289
BLAST score
                   716
E value
                   5.0e-76
Match length
                   141
% identity
                   97
                   PHOTOSYSTEM II 44 KD REACTION CENTRE PROTEIN (P6 PROTEIN)
NCBI Description
                   (CP43) >qi 72709 pir F2NT44 photosystem II chlorophyll
                   a-binding protein psbC - common tobacco chloroplast
                   >gi_225285_prf__1211235W photosystem II 44kD protein
                   [Nicotiana tabacum]
Seq. No.
                   142562
Seq. ID
                   LIB3168-016-P1-K1-A6
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   203
E value
                   1.0e-55
Match length
                   140
                   79
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142563
Seq. No.
                   LIB3168-016-P1-K1-A7
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112681
BLAST score
                   637
                   9.0e-67
E value
                   126
Match length
                   98
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir_ S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142564
```

LIB3168-016-P1-K1-A8

```
Method
                  BLASTN
NCBI GI
                  g3241917
BLAST score
                  339
                  0.0e+00
E value
                  382
Match length
                  97
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K19B1, complete sequence [Arabidopsis thaliana]
                  142565
Seq. No.
Seq. ID
                  LIB3168-016-P1-K1-B1
                  BLASTN
Method
NCBI GI
                  g4468103
BLAST score
                  197
E value
                  1.0e-107
                  382
Match length
                  87
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone M3E9
                  (ESSA project)
                  142566
Seq. No.
                  LIB3168-016-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4753882
                  350
BLAST score
E value
                  4.0e-33
                  130
Match length
                  54
% identity
NCBI Description
                  (AL049754) putative aspartate aminotransferase
                  [Streptomyces coelicolor]
                  142567
Seq. No.
                  LIB3168-016-P1-K1-B2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4581043
                  53
BLAST score
                  7.0e-21
E value
                  69
Match length
                  94
% identity
                  Populus deltoides Qa-binding protein PsbD (psbD) and
NCBI Description
                  chlorophyll a-binding protein PsbC (psbC) genes,
                  chloroplast genes encoding chloroplast proteins, complete
                  cds
Seq. No.
                  142568
                  LIB3168-016-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
                  695
BLAST score
E value
                  1.0e-73
Match length
                  131
                  100
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir_ S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]



```
Seq. No.
                    142569
 Seq. ID
                    LIB3168-016-P1-K1-B5
 Method
                    BLASTN
 NCBI GI
                    g4519193
 BLAST score
                    133
 E value
                    1.0e-68
 Match length
                    426
                    100
 % identity
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
 NCBI Description
                   MDC11, complete sequence
                    142570
 Seq. No.
 Seq. ID
                    LIB3168-016-P1-K1-B8
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    625
                    2.0e-65
 E value
 Match length
                    120
                    100
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                    142571
                    LIB3168-016-P1-K1-B9
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    q1628583
 BLAST score
                    578
 E value
                    8.0e-60
                    143
 Match length
                    80
 % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                    142572
 Seq. No.
                    LIB3168-016-P1-K1-C10
 Seq. ID
                    BLASTX
 Method
 NCBI GI
                    g112682
 BLAST score
                    578
                    7.0e-60
 E value
                    135
 Match length
                    81
 % identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
 NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
                    142573
 Seq. No.
                   LIB3168-016-P1-K1-C11
 Seq. ID
                   BLASTN
 Method
                   g3298532
 NCBI GI
 BLAST score
                   391
 E value
                    0.0e + 00
```

415

Match length



```
% identity
NCBI Description Arabidopsis thaliana chromosome II BAC T26B15 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
                  142574
Seq. No.
Seq. ID
                  LIB3168-016-P1-K1-C4
Method
                  BLASTX
NCBI GI
                  g2916772
BLAST score
                  656
                  5.0e-69
E value
                  132
Match length
                  99
% identity
                  (AJ224119) AT-hook protein 2 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  142575
                  LIB3168-016-P1-K1-C5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  564
E value
                  3.0e-58
Match length
                  132
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir_ S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142576
Seq. ID
                  LIB3168-016-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  647
                  6.0e-68
E value
Match length
                  142
% identity
                  88
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605 pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142577
                  LIB3168-016-P1-K1-C8
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  462
                  3.0e-46
E value
Match length
                  122
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

142578 Seq. No.

Seq. ID LIB3168-016-P1-K1-D10

BLASTX Method

```
NCBI GI
                  g1628583
BLAST score
                  656
E value
                  5.0e-69
Match length
                  128
% identity
                  98
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142579
Seq. No.
                  LIB3168-016-P1-K1-D11
Seq. ID
Method
                  BLASTX
                  q103313
NCBI GI
BLAST score
                  470
E value
                  3.0e-47
Match length
                  131
                  12
% identity
                  probable cell cycle control protein crn - fruit fly
NCBI Description
                  (Drosophila melanogaster) >gi_2827496_emb_CAA15705.1_
                  (AL009195) EG:30B8.1 [Drosophila melanogaster]
Seq. No.
                  142580
                  LIB3168-016-P1-K1-D12
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112682
BLAST score
                  260
E value
                  7.0e-23
Match length
                  86
                  67
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142581
                  LIB3168-016-P1-K1-D3
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2114077
BLAST score
                  136
                  2.0e-70
E value
Match length
                  286
                  90
% identity
                  Arabidopsis thaliana DNA for larger subunit of Rubisco,
NCBI Description
                  beta subunit of coupling factor one, partial cds
Seq. No.
                  142582
Seq. ID
                  LIB3168-016-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  446
                  2.0e-44
E value
Match length
                  126
                  72
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
```

Arabidopsis thaliana >gi\_166615 (M22033) albumin 2S subunit

2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871 (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana] >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2 precursor [Arabidopsis thaliana]

142583 Seq. No.

Seq. ID LIB3168-016-P1-K1-D5

Method BLASTX NCBI GI q1628583 BLAST score 701 E value 3.0e-74Match length 139 100 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142584

Seq. ID LIB3168-016-P1-K1-D6

Method BLASTX NCBI GI g3152605 BLAST score 608 E value 2.0e-63 Match length 124 % identity 100

NCBI Description (AC004482) hypothetical protein [Arabidopsis thaliana]

142585 Seq. No.

Seq. ID LIB3168-016-P1-K1-D7

Method BLASTX NCBI GI g112682 BLAST score 564 E value 3.0e-58 Match length 132

% identity 81

12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510 NCBI Description

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 142586

Seq. ID LIB3168-016-P1-K1-D8

Method BLASTX NCBI GI g1628583 BLAST score 663 E value 7.0e-70 Match length 131 97 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

> thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142587

Seq. ID LIB3168-016-P1-K1-D9

Method BLASTX NCBI GI q112682

```
BLAST score
                  564
E value
                  3.0e-58
Match length
                  132
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142588
Seq. No.
                  LIB3168-016-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  126
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142589
Seq. No.
Seq. ID
                  LIB3168-016-P1-K1-E10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  200
E value
                  8.0e-16
Match length
                  75
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142590
Seq. No.
Seq. ID
                  LIB3168-016-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  a1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142591
Seq. ID
                  LIB3168-016-P1-K1-E3
Method
                  BLASTN
NCBI GI
                  g3510347
BLAST score
                  62
E value
                  6.0e-27
Match length
                  93
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
```

MSJ11, complete sequence [Arabidopsis thaliana]

```
Seq. No.
                   142592
Seq. ID
                   LIB3168-016-P1-K1-E4
Method ·
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   182
E value
                   1.0e-26
Match length
                   108
% identity
                   64
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142593
                   LIB3168-016-P1-K1-E7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   625
E value
                   2.0e-65
Match length
                   120
% identity
                   100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142594
Seq. No.
Seq. ID
                   LIB3168-016-P1-K1-E8
Method
                   BLASTN
NCBI GI
                   g2828186
BLAST score
                   138
E value
                   1.0e-71
Match length
                   374
% identity
                   96
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K18I23, complete sequence [Arabidopsis thaliana]
                   142595
Seq. No.
Seq. ID
                   LIB3168-016-P1-K1-E9
                   BLASTX
Method
NCBI GI
                   g1628583
BLAST score
                   625
E value
                   2.0e-65
Match length
                   120
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142596
Seq. ID
                   LIB3168-016-P1-K1-F1
                   BLASTX
Method
                   g461841
NCBI GI
BLAST score
                   2Ò8
```

5.0e-17

E value

BLAST score

```
Match length
                   53
                   72
% identity
                   CRUCIFERIN CRU4 PRECURSOR (11S GLOBULIN) (12S STORAGE
NCBI Description
                   PROTEIN)
                   142597
Seq. No.
Seq. ID
                   LIB3168-016-P1-K1-F10
Method
                   BLASTN
NCBI GI
                   g3540210
BLAST score
                   381
E value
                   0.0e + 00
Match length
                   413
                   98
% identity
NCBI Description
                   Arabidopsis thaliana chromosome I BAC F5A8 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
                   142598
Seq. No.
                   LIB3168-016-P1-K1-F11
Seq. ID
Method
                   BLASTN
NCBI GI
                   q4199934
BLAST score
                   277
E value
                   1.0e-154
Match length
                   371
% identity
                   93
NCBI Description
                   Genomic sequence for Arabidopsis thaliana BAC T3P18,
                   complete sequence [Arabidopsis thaliana]
                   142599
Seq. No.
Seq. ID
                   LIB3168-016-P1-K1-F12
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   583
E value
                   2.0e-60
Match length
                   136
% identity
                   82
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142600
Seq. ID
                   LIB3168-016-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  g4539293
BLAST score
                   560
E value
                   8.0e-58
Match length
                  115
% identity
                   100
                   (AL049480) putative membrane transporter [Arabidopsis
NCBI Description
                  thalianal
                   142601
Seq. No.
                  LIB3168-016-P1-K1-F7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112737
```



```
5.0e-57
E value
Match length
                   134
% identity
                   81
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir_ NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204 emb_CAA80870_
                   (224745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi 4490710 emb_CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142602
Seq. ID
                   LIB3168-016-P1-K1-G1
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   265
E value
                   3.0e-23
Match length.
                   118
% identity
                   52
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142603
Seq. ID
                   LIB3168-016-P1-K1-G10
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   658
E value
                   3.0e-69
Match length
                   138
                   93
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142604
Seq. No.
                   LIB3168-016-P1-K1-G11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   620
E value
                   9.0e-65
Match length
                   120
                   99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
```

142605 Seq. No.

Seq. ID LIB3168-016-P1-K1-G12

Method BLASTX NCBI GI g1628583 BLAST score 573 3.0e-59 E value Match length 121 . 92 % identity

```
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142606
                   LIB3168-016-P1-K1-G2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   208
E value
                   1.0e-17
                   75
Match length
                   69
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) > gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142607
Seq. ID
                   LIB3168-016-P1-K1-G3
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   562
E value
                   5.0e-58
Match length
                   140
                   79
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142608
Seq. No.
                   LIB3168-016-P1-K1-G4
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4204299
BLAST score
                   688
E value
                   9.0e-73
Match length
                   134
% identity
                   100
NCBI Description
                   (AC003027) lcl prt seq No definition line found
                   [Arabidopsis thaliana]
                   142609
Seq. No.
Seq. ID
                   LIB3168-016-P1-K1-G5
Method
                   BLASTX
NCBI GI
                   q4586263
                   231
BLAST score
E value
                   9.0e-29
Match length
                   124
                   57
% identity
NCBI Description
                   (AL049640) putative protein [Arabidopsis thaliana]
                   142610
Seq. No.
Seq. ID
                   LIB3168-016-P1-K1-G6
Method
                   BLASTN
NCBI GI
                   g3128139
```

Seq. No.

```
BLAST score
                  181
E value
                  3.0e-97
Match length
                   411
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MIK19, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142611
Seq. ID
                  LIB3168-016-P1-K1-G7
Method
                  BLASTN
NCBI GI
                  g12307
BLAST score
                  37
E value
                  3.0e-11
Match length
                  94
                   97
% identity
                  Spinach plastid genes rps3, rps19, rpl14, rpl16 and rpl22
NCBI Description
                  for ribosomal proteins S3, S19, L14, L16 and L22
Seq. No.
                  142612
Seq. ID
                  LIB3168-016-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  243
E value
                  1.0e-20
Match length
                  74
% identity
                  100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142613
Seq. ID
                  LIB3168-016-P1-K1-G9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
                  100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142614
Seq. ID
                  LIB3168-016-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  644
E value
                  1.0e-67
Match length
                  141
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
```

NCBI GI

```
LIB3168-016-P1-K1-H10
Seq. ID
                  BLASTX
Method
                  q1628583
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142616
Seq. No.
                  LIB3168-016-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
                  725
BLAST score
                  4.0e-77
E value
                  135
Match length
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir_NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712_emb_CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  142617
Seq. No.
                  LIB3168-016-P1-K1-H3
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
                  299
BLAST score
                  1.0e-27
E value
                  71
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142618
Seq. No.
Seq. ID
                  LIB3168-016-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  568
                  1.0e-58
E value
Match length
                  118
% identity
                  90
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142619
Seq. No.
                  LIB3168-016-P1-K1-H5
Seq. ID
Method
                  BLASTX
```

g1628583

```
BLAST score
                  627
E value
                  1.0e-65
Match length
                  128
                  95
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142620
Seq. ID
                  LIB3168-016-P1-K1-H6
Method
                  BLASTN
NCBI GI
                  g16236
BLAST score
                  110
                  3.0e-55
E value
                  154
Match length
                  95
% identity
                  Arabidopsis CRB gene for 12S seed storage protein
NCBI Description
                  >gi 166677 gb M37248 ATHCRBAA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
Seq. No.
                  142621
Seq. ID
                  LIB3168-016-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142622
Seq. ID
                  LIB3168-016-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  595
                  7.0e-62
E value
                  138
Match length
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142623
                  LIB3168-016-P1-K1-H9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  590
E value
                  3.0e-61
Match length
                  138
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
```

NCBI Description

```
storage protein [Arabidopsis thaliana]
Seq. No.
                  142624
                  LIB3168-017-P1-K1-A1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  209
E value
                  4.0e-17
Match length
                  69
% identity
                  62
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  142625
Seq. No.
                  LIB3168-017-P1-K1-A10
Seq. ID
Method
                  BLASTX
                  q112681
NCBI GI
BLAST score
                  633
E value
                  2.0e-66
Match length
                  118
% identity
                  99
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142626
                  LIB3168-017-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3335169
                  699
BLAST score
                  5.0e-74
E value
                  130
Match length
% identity
                  100
NCBI Description
                  (AF067857) embryo-specific protein 1 [Arabidopsis thaliana]
                  >gi_4455197_emb_CAB36520.1_ (AL035440) embryo-specific
                  protein 1 (ATS1) [Arabidopsis thaliana]
Seq. No.
                  142627
Seq. ID
                  LIB3168-017-P1-K1-A12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  100
```

thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed

(U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  142628
Seq. ID
                  LIB3168-017-P1-K1-A2
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  416
                  5.0e-41
E value
Match length
                  103
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142629
Seq. No.
                  LIB3168-017-P1-K1-A3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112739
BLAST score
                  467
                  8.0e-47
E value
Match length
                  131
                  73
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  142630
Seq. No.
                  LIB3168-017-P1-K1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  478
E value
                  4.0e-48
Match length
                  119
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142631
Seq. ID
                  LIB3168-017-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  705
                  9.0e-75
E value
Match length
                  131
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
```

```
Seq. No.
                  142632
Seq. ID
                  LIB3168-017-P1-K1-A6
                             14.
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  424
E value
                  8.0e-42
Match length
                  80
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142633
Seq. ID
                  LIB3168-017-P1-K1-A8
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  235
E value
                  7.0e-28
                  85
Match length
% identity
                  84
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142634
Seq. ID
                  LIB3168-017-P1-K1-A9
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  536
E value
                  3.0e-55
Match length
                  100
% identity
                  97
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  142635
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-B1
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  253
E value
                  7.0e-22
                  104
Match length
% identity
                  36
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
```

Method

BLASTX

## precursor [Arabidopsis thaliana]

```
Seq. No.
                  142636
Seq. ID
                  LIB3168-017-P1-K1-B10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  516
E value
                  1.0e-52
Match length
                  130
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142637
                  LIB3168-017-P1-K1-B11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  487
E value
                  3.0e-49
                  133
Match length
                  74
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142638
                  LIB3168-017-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  432
E value
                  9.0e-43
Match length
                  105
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142639
                  LIB3168-017-P1-K1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g132863
BLAST score
                  285
E value
                  3.0e - 32
Match length
                  94
% identity
                  CHLOROPLAST 50S RIBOSOMAL PROTEIN L2
NCBI Description
                  >gi 12214 emb CAA46568 (X65615) ribosomal protein L2
                  [Sinapis alba]
Seq. No.
                  142640
                  LIB3168-017-P1-K1-B3
Seq. ID
```

```
NCBI GI
                  q1628583
BLAST score
                  602
E value
                  1.0e-62
Match length
                  120
% identity
                  97
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142641
                  LIB3168-017-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2129659
BLAST score
                  579
E value
                  5.0e-60
Match length
                  132
                  87
% identity
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                   (L40954) oleosin [Arabidopsis thaliana]
                  142642
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-B5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  609
E value
                  2.0e-63
Match length
                  120
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142643
Seq. ID
                  LIB3168-017-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  335
E value
                  3.0e - 31
Match length
                  69
% identity
                  97
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142644
                  LIB3168-017-P1-K1-B7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  522
E value
                  2.0e-53
                  102
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

```
142645
Seq. No.
Seq. ID
                   LIB3168-017-P1-K1-B8
                   BLASTX
Method
NCBI GI
                   q4678322
BLAST score
                   384
                   2.0e-37
E value
Match length
                   86
% identity
                   (AL049658) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   142646
                   LIB3168-017-P1-K1-B9
Seq. ID
Method
                   BLASTX
                   q1628583
NCBI GI
BLAST score
                   494
E value
                   3.0e-50
Match length
                   97
% identity
                   98
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142647
Seq. ID
                   LIB3168-017-P1-K1-C1
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   473
E value
                   1.0e-47
Match length
                   117
% identity
                   82
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_ S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142648
                   LIB3168-017-P1-K1-C10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   686
                   2.0e-72
E value
Match length
                   127
                   100
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
                   142649
Seq. No.
                   LIB3168-017-P1-K1-C11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
```

Seq. No.

```
676
BLAST score
                  2.0e-71
E value
                  140
Match length
                  92
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142650
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  500
                  1.0e-58
E value
                  119
Match length
                  96
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142651
Seq. No.
                  LIB3168-017-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  562
E value
                  5.0e-58
Match length
                  113
% identity
                  96
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142652
                  LIB3168-017-P1-K1-C5
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  627
E value
                  1.0e-65
                  123
Match length
% identity
                  98
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142653
                  LIB3168-017-P1-K1-C6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4585873
BLAST score
                  159
E value
                  1.0e-10
                  91
Match length
% identity
                  (AC005850) Putative protein kinase [Arabidopsis thaliana]
NCBI Description
```

E value

2.0e-65

```
LIB3168-017-P1-K1-C7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  661
                  1.0e-69
E value
Match length
                  138
                  93
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142655
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  450
                  7.0e-45
E value
Match length
                  127
% identity
                  72
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142656
Seq. ID
                  LIB3168-017-P1-K1-C9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  612
E value
                  7.0e-64
Match length
                  120
% identity
                  98
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142657
Seq. ID
                  LIB3168-017-P1-K1-D1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142658
Seq. ID
                  LIB3168-017-P1-K1-D11
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  625
```

```
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142659
Seq. ID
                  LIB3168-017-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  131
                  2.0e-07
E value
Match length
                  71
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142660
Seq. ID
                  LIB3168-017-P1-K1-D2
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  562
E value
                  4.0e-58
Match length
                  113
                  95
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142661
                  LIB3168-017-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204299
BLAST score
                  76
E value
                  5.3e-01
Match length
                  136
                  26
% identity
                  (AC003027) 1cl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
                  142662
Seq. No.
                  LIB3168-017-P1-K1-D4
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  2.0e-67
Match length
                  127
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142663
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-D5
Method
                  BLASTX
NCBI GI
                  g1628583
```

Seq. ID

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```
BLAST score
                   438
E value
                   9.0e-44
                  87
Match length
                   98
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142664
                  LIB3168-017-P1-K1-D6
Seq. ID
                  BLASTN
Method
NCBI GI
                  q2244870
BLAST score
                  243
E value
                   1.0e-134
                  296
Match length
                   95
% identity
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                   fragment No
Seq. No.
                  142665
Seq. ID
                  LIB3168-017-P1-K1-D7
Method
                  BLASTN
NCBI GI
                  g1279569
BLAST score
                  86
E value
                   1.0e-40
Match length
                  234
% identity
                  89
                  Nicotiana acuminata chloroplast JLA region, 1-1028bp
NCBI Description
                  142666
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-D8
Method
                  BLASTX
NCBI GI
                   g112681
BLAST score
                  585
E value
                   1.0e-60
Match length
                   136
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir_ S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142667
Seq. ID
                  LIB3168-017-P1-K1-D9
Method
                  BLASTX
NCBI GI
                  g3080403
BLAST score
                  418
E value
                   4.0e-41
Match length
                  94
% identity
                   86
                   (AL022603) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  >gi 4455267 emb CAB36803.1 (AL035527) putative
                  bifunctional nuclease [Arabidopsis thaliana]
Seq. No.
                  142668
```

LIB3168-017-P1-K1-E1

Seq. No.

```
Method
                  BLASTX
NCBI GI
                  g1628583
                  337
BLAST score
                  1.0e-31
E value
Match length
                  67
                  99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142669
                  LIB3168-017-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  687
                  1.0e-72
E value
Match length
                  130
                  100
% identity -
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142670
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  669
E value
                  2.0e-70
Match length
                  140
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142671
                  LIB3168-017-P1-K1-E12
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4199934
BLAST score
                  291
E value
                  1.0e-163
                  295
Match length
                  100
% identity
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  142672
                  LIB3168-017-P1-K1-E2
Seq. ID
                  BLASTN
Method
NCBI GI
                  q2660661
BLAST score
                  280
E value
                  1.0e-156
Match length
                  352
                  94
% identity
                  Arabidopsis thaliana chromosome V BAC T19K24 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
```

% identity

```
LIB3168-017-P1-K1-E3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  630
                  5.0e-66
E value
                  129
Match length
% identity
                  91
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142674
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-E6
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142675
                  LIB3168-017-P1-K1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  634
                  2.0e-66
E value
                  135
Match length
                  91
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142676
Seq. ID
                  LIB3168-017-P1-K1-E8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  547
E value
                  3.0e-56
Match length
                  137
% identity
                  79
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142677
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-E9
                  BLASTN
Method
NCBI GI
                  g4678266
BLAST score
                  97
E value
                  4.0e-47
Match length
                  281
```

```
NCBI Description Arabidopsis thaliana DNA chromosome 3, BAC clone F15B8
                   (ESSA project)
                  142678
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-F1
Method
                  BLASTN
NCBI GI
                  g3135250
BLAST score
                  54
E value
                  1.0e-21
Match length
                  58
                  98
% identity
                  Arabidopsis thaliana chromosome II BAC F27F23 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  142679
Seq. No.
                  LIB3168-017-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4510397
BLAST score
                  461
E value
                  3.0e-46
                  109
Match length
% identity
                  86
                   (AC006587) putative preproMP27-MP32 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  142680
                                                               34.
Seq. ID
                  LIB3168-017-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  162
E value
                  4.0e-11
Match length
                  73
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142681
Seq. No.
                  LIB3168-017-P1-K1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4510373
                  276
BLAST score
                  2.0e-24
E value
                  112
Match length
% identity
                   (AC007017) putative harpin-induced protein [Arabidopsis
NCBI Description
                  thaliana]
                  142682
Seq. No.
                  LIB3168-017-P1-K1-F2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  336
E value
                  2.0e-31
                  134
Match length
                  54
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

## cruciferin seed storage protein [Arabidopsis thaliana]

 Seq. No.
 142683

 Seq. ID
 LIB3168-017-P1-K1-F3

 Method
 BLASTX

NCBI GI g114654
BLAST score 289
E value 5.0e-26
Match length 81
% identity 79

NCBI Description ATP SYNTHASE C CHAIN (LIPID-BINDING PROTEIN) (SUBUNIT III)

>gi\_67898\_pir\_LWNTA H+-transporting ATP synthase (EC

3.6.1.34) lipid-binding protein - common tobacco

chloroplast >gi\_11812\_emb\_CAA77343\_ (Z00044) ATPase III subunit [Nicotiana tabacum] >gi\_343484 (M10124) ATPase subunit III [Nicotiana tabacum] >gi\_224347\_prf\_\_1102209A

ATPase III, H translocating [Nicotiana sp.]

>gi\_225272\_prf\_\_1211235G ATPase III [Nicotiana tabacum]

Seq. No. 142684

Seq. ID LIB3168-017-P1-K1-F4

Method BLASTX
NCBI GI g1628583
BLAST score 653
E value 1.0e-68
Match length 125
% identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142685

Seq. ID LIB3168-017-P1-K1-F5

Method BLASTN
NCBI GI g2842474
BLAST score 39
E value 3.0e-13
Match length 79
% identity 87

NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone F2009

(ESSAII project)

Seq. No. 142686

Seq. ID LIB3168-017-P1-K1-F6

Method BLASTX
NCBI GI g3482918
BLAST score 213
E value 3.0e-17
Match length 58
% identity 69

NCBI Description (AC003970) Similar to ATP-citrate-lyase [Arabidopsis

thaliana]

Seq. No. 142687

Seq. ID LIB3168-017-P1-K1-F9

Method BLASTX NCBI GI g1628583

```
BLAST score
                  468
E value
                  2.0e-48
                  103
Match length
                  87
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142688
                  LIB3168-017-P1-K1-G1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  276
                  1.0e-24
E value
                  65
Match length
                  80
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142689
                  LIB3168-017-P1-K1-G11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4204298
BLAST score
                  521
E value
                  3.0e-53
Match length
                  121
% identity
                  (AC003027) lcl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  142690
Seq. ID
                  LIB3168-017-P1-K1-G2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  620
E value
                  8.0e-65
Match length
                  119
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142691
                  LIB3168-017-P1-K1-G3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  632
                  3.0e-66
E value ·
Match length
                  133
                  89
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi 166617 (M22033) albumin 2S subunit
```

4 precursor [Arabidopsis thaliana] >gi\_395202 emb CAA80869

```
(224744) 2S albumin isoform 4 [Arabidopsis thaliana] >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4 precursor [Arabidopsis thaliana]
```

```
precursor [Arabīdopsis thaliana]
                   142692
Seq. No.
Seq. ID
                   LIB3168-017-P1-K1-G4
Method
                   BLASTX
NCBI GI
                   g112682
                   647
BLAST score
E value
                   6.0e-68
Match length
                   134
                   92
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142693
                   LIB3168-017-P1-K1-G5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   363
E value
                   5.0e-35
Match length
                   76
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142694
Seq. ID
                   LIB3168-017-P1-K1-G7
Method
                   BLASTX
NCBI GI
                   q728880
BLAST score
                   446
E value
                   2.0e-44
Match length
                   128
% identity
                   67
                   N-TERMINAL ACETYLTRANSFERASE COMPLEX ARD1 SUBUNIT HOMOLOG
NCBI Description
                   >gi_517485_emb_CAA54691 (X77588) ARD1 N-acetyl transferase
homologue [Homo sapiens] >gi_1302661 (U52112) ARD1 N-acetyl
                   transferase related protein [Homo sapiens]
Seq. No.
                   142695
Seq. ID
                   LIB3168-017-P1-K1-G8
Method
                   BLASTX
NCBI GI
                   q112681
                   570
BLAST score
E value
                   6.0e-59
Match length
                   133
                   83
% identity
```

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509

storage protein [Arabidopsis thaliana]

```
Seq. No.
                   142696
Seq. ID
                   LIB3168-017-P1-K1-G9
Method
                   BLASTN
NCBI GI
                   g4691223
BLAST score
                   315
E value
                   1.0e-177
Match length
                   335
% identity
                   99
NCBI Description
                   Arabidopsis thaliana DNA chromosome 3, BAC clone F4F15
                   (ESSA project)
Seq. No.
                   142697
Seq. ID
                  LIB3168-017-P1-K1-H1
Method
                  BLASTN
NCBI GI
                   q4585890
BLAST score
                   401
E value
                   0.0e + 00
Match length
                   421
                   99
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T3G21 genomic
                   sequence, complete sequence
Seq. No.
                   142698
                  LIB3168-017-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                   q112681
BLAST score
                   253
E value
                   7.0e-22
Match length
                   50
% identity
                   100
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142699
                  LIB3168-017-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  582
E value
                  2.0e-60
Match length
                  116
% identity
                  97
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142700
Seq. No.
Seq. ID
                  LIB3168-017-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  q4539316
BLAST score
                  559
E value
                  1.0e-57
Match length
                  115
% identity
                  100
NCBI Description
                   (AL035679) putative fructose-bisphosphate aldolase
```

## [Arabidopsis thaliana]

Seq. No. 142701 LIB3168-017-P1-K1-H2 Seq. ID BLASTX Method g1107501 NCBI GI BLAST score 397 1.0e-38 E value 99 -Match length 81 % identity (X91954) orf [Arabidopsis thaliana] >gi\_3367530 (AC004392) NCBI Description Match to gb X91954 orf gene product from A. thaliana. ESTs gb\_Z17604, gb\_H76594, gb\_AA597972 and gb\_AA394824 come from this gene. [Arabidopsis thaliana] Seq. No. 142702 LIB3168-017-P1-K1-H3 Seq. ID Method BLASTN g511598 NCBI GI 372 BLAST score 0.0e + 00E value 380 Match length % identity 30 Arabidopsis thaliana cell wall protein (APTR-1) gene, NCBI Description complete cds 142703 Seq. No. Seq. ID LIB3168-017-P1-K1-H4 Method BLASTX NCBI GI q1628583 625 BLAST score 2.0e-65 E value Match length 120 100 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 142704 LIB3168-017-P1-K1-H5 Seq. ID Method BLASTX NCBI GI g112682 648 BLAST score 5.0e-68 E value 142 Match length 88 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510 NCBI Description cruciferin precursor (CRB) - Arabidopsis thaliana >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana] 142705 Seq. No.

Seq. ID LIB3168-017-P1-K1-H6

Method BLASTX NCBI GI g2842424 BLAST score 511

E value

```
E value
                   5.0e-52
Match length
                   141
 % identity
                   64
                   (AJ223948) RNA helicase [Homo sapiens]
NCBI Description
                   142706
Seq. No.
                   LIB3168-017-P1-K1-H7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   621
E value
                   6.0e-65
Match length
                   126
% identity
                   95
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142707
Seq. No.
                   LIB3168-017-P1-K1-H8
Seq. ID
Method
                   BLASTX
                   g1628583
NCBI GI
BLAST score
                   345
E value
                   1.0e-32
Match length
                   86
% identity
                   78
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142708
Seq. ID
                   LIB3168-017-P1-K1-H9
Method
                   BLASTN
NCBI GI
                   q3063690
BLAST score
                   287
E value
                   1.0e-160
Match length
                   412
% identity
                   99
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F4D11
NCBI Description
                   (ESSAII project)
                   142709
Seq. No.
Seq. ID
                   LIB3168-018-P1-K1-A1
Method .
                   BLASTN
NCBI GI
                   q1628582
BLAST score
                   50
E value
                   9.0e-20
Match length
                   74
% identity
NCBI Description
                   Arabidopsis thaliana 12S cruciferin seed storage protein
                   (ATCRU3) gene, complete cds
Seq. No.
                   142710
Seq. ID
                   LIB3168-018-P1-K1-A10
Method
                   BLASTN
NCBI GI
                   g4199934
BLAST score
                   216
                   1.0e-118
```

Match length

```
276
Match length
                   95
% identity
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   142711
Seq. No.
                  LIB3168-018-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                   g2252472
BLAST score
                   449
E value
                   9.0e-45
Match length
                  115
% identity
                   77
NCBI Description
                   (Z97558) argininosuccinate lyase [Arabidopsis thaliana]
                  142712
Seq. No.
                  LIB3168-018-P1-K1-A12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2252471
BLAST score
                  164
E value
                  4.0e-87
Match length
                  216
                  94
% identity
NCBI Description
                  Arabidopsis thaliana mRNA for argininosuccinate lyase
Seq. No.
                  142713
Seq. ID
                  LIB3168-018-P1-K1-A2
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  444
E value
                  3.0e-44
Match length
                  112
                  78
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 (Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142714
Seq. ID
                  LIB3168-018-P1-K1-A4
Method
                  BLASTN
NCBI GI
                  g2827513
BLAST score
                  223
E value
                  1.0e-122
Match length
                  402
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F8F16
                  (ESSAII project)
Seq. No.
                  142715
Seq. ID
                  LIB3168-018-P1-K1-A5
Method
                  BLASTN
NCBI GI
                  g4206762
BLAST score
                  212
E value
                  1.0e-115
```

E value

8.0e-46

```
% identity
NCBI Description
                  Arabidopsis thaliana cell wall-plasma membrane linker
                  protein homolog (CWLP) mRNA, complete cds
                  142716
Seq. No.
Seq. ID
                  LIB3168-018-P1-K1-A6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  599
E value
                  2.0e-62
Match length
                  119
% identity
                  97
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142717
Seq. No.
                  LIB3168-018-P1-K1-A7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  220
                  2.0e-18
E value
Match length
                  70
                  71
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142718
Seq. No.
                  LIB3168-018-P1-K1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
                  511
BLAST score
                   3.0e-52
E value.
                   98
Match length
% identity
                   100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142719
Seq. No.
Seq. ID
                  LIB3168-018-P1-K1-A9
Method
                  BLASTX
NCBI GI
                  q4204298
BLAST score
                   449
                   7.0e-45
E value
Match length
                  107
% identity
NCBI Description
                   (AC003027) 1cl prt seq No definition line found
                   [Arabidopsis thaliana]
                   142720
Seq. No.
Seq. ID
                  LIB3168-018-P1-K1-B1
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                   458
```

```
125
Match length
                  74
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142721
                  LIB3168-018-P1-K1-B10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  619
                  1.0e-64
E value
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142722
                  LIB3168-018-P1-K1-B11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1402914
                  93
BLAST score
                  5.0e-34
E value .
                  105
Match length
                  77
% identity
NCBI Description
                  (X98318) peroxidase [Arabidopsis thaliana]
                  142723
Seq. No.
                  LIB3168-018-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  610
                  1.0e-63
E value
                  137
Match length
                  84
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  142724
Seq. No.
                  LIB3168-018-P1-K1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  374
                  4.0e-36
E value
                  104
Match length
% identity
                  71
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
```

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]

```
precursor [Arabidopsis thaliana]
                    142725
Seq. No.
Seq. ID
                    LIB3168-018-P1-K1-B3
Method
                    BLASTX
NCBI GI
                    g112741
BLAST score
                    619
E value
                    1.0e-64
Match length
                    117
                    98
% identity
NCBI Description
                    2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                    PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                    Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                    (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                    >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                    precursor [Arabidopsis thaliana]
Seq. No.
                    142726
Seq. ID
                    LIB3168-018-P1-K1-B4
Method
                    BLASTX
NCBI GI
                    g112681
BLAST score
                    707.
E value
                    5.0e-75
Match length
                    137
% identity
                    96
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
Seq. No.
                    142727
Seq. ID
                    LIB3168-018-P1-K1-B5
Method
                    BLASTN
NCBI GI
                    g1448916
BLAST score
                    323
E value
                    0.0e + 00
Match length
                    367
% identity
                    97
NCBI Description
                   Arabidopsis thaliana threonine synthase mRNA, 3' end of cds
Seq. No.
                    142728
Seq. ID
                    LIB3168-018-P1-K1-B6
Method
                    BLASTX
NCBI GI
                    g112682
BLAST score
                    550
E value
                    1.0e-56
Match length
                    116
% identity
                    91
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB (Arabidopsis
thaliana) >gi_808937_emb_CAA32494_ (X14313) 12S seed
```

>qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  142729
Seq. ID
                  LIB3168-018-P1-K1-B7
Method
                  BLASTX
NCBI GI
                  g4510345
BLAST score
                  451
E value
                  5.0e-45
Match length
                  82
% identity
                  100
NCBI Description
                  (AC006921) unknown protein [Arabidopsis thaliana]
Seq. No.
                  142730
                  LIB3168-018-P1-K1-B9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  461
E value
                  3.0e-46
Match length
                  122
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142731
Seq. ID
                  LIB3168-018-P1-K1-C1
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  735
E value
                  3.0e-78
Match length
                  142
                  98
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142732
Seq. ID
                  LIB3168-018-P1-K1-C10
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  369
E value
                  3.0e-41
Match length
                  122
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142733
Seq. ID
                  LIB3168-018-P1-K1-C11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  189
E value
                  1.0e-14
Match length
                  49
                  78
% identity
```

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]
```

```
142734
                   LIB3168-018-P1-K1-C2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   706
                   7.0e-75
E value
Match length
                   137
                   98
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142735
                   LIB3168-018-P1-K1-C3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   51
E value
                   7.0e-67
Match length
                   132
                   95
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142736
Seq. ID
                   LIB3168-018-P1-K1-C5
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   665
E value
                   5.0e-70
Match length
                   128
% identity
                   96
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142737
Seq. ID
                   LIB3168-018-P1-K1-C8
Method
                   BLASTX
NCBI GI
                   g119350
BLAST score
                   638
E value
                   6.0e-67
Match length
                   130
% identity
                   96
                   ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE)
NCBI Description
```

(2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) >gi 81608 pir JQ1187

```
[Arabidopsis thaliana]
                   >gi_4581151_gb_AAD24635.1_AC006919_13 (AC006919) enolase
                   (2-phospho-D-glycerate hydroylase); identical to P25696
                   [Arabidopsis thaliana]
                   142738
Seq. No.
                   LIB3168-018-P1-K1-C9 ·
Seq. ID
                   BLASTX
Method
NCBI GI
                   q4191791
BLAST score
                   570
                   6.0e-59
E value
                   126
Match length
% identity
                   (AC005917) putative sf21 {Helianthus annuus} protein
NCBI Description
                   [Arabidopsis thaliana]
                   142739
Seq. No.
Seq. ID
                   LIB3168-018-P1-K1-D1
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   583
E value
                   2.0e-60
                   136
Match length
                   82
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142740
                   LIB3168-018-P1-K1-D10
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   581
                   2.0e-60
E value
Match length
                   115
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142741
Seq. No.
                   LIB3168-018-P1-K1-D11
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   546
                   4.0e-56
E value
Match length
                   136
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142742
Seq. No.
```

phosphopyruvate hydratase (EC 4.2.1.11) - Arabidopsis
thaliana >gi\_16271\_emb\_CAA41114\_ (X58107) enolase

```
LIB3168-018-P1-K1-D2
   Seq. ID
   Method
                      BLASTX
....NCBI GI
                      g112681
                      739
   BLAST score
   E value
                      1.0e-78
                      140
   Match length
   % identity
                      99
   NCBI Description
                      12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                      cruciferin precursor (CRA1) - Arabidopsis thaliana
                      >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                      thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                      storage protein [Arabidopsis thaliana]
   Seq. No.
                      142743
                      LIB3168-018-P1-K1-D3
   Seq. ID
   Method
                      BLASTX
   NCBI GI
                      g112682
   BLAST score
                      692
   E value
                      3.0e-73
                      139
   Match length
                      96
   % identity
   NCBI Description
                      12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                      cruciferin precursor (CRB) - Arabidopsis thaliana
                      >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                      thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                      storage protein [Arabidopsis thaliana]
   Seq. No.
                      142744
   Seq. ID
                      LIB3168-018-P1-K1-D4
   Method
                     BLASTX
                      q2851455
   NCBI GI
   BLAST score
                      220
                      6.0e-18
   E value
   Match length
                      52
   % identity
                      88
   NCBI Description
                      DYNAMIN-LIKE PROTEIN >qi 2267213 (L36939) dynamin-like GTP
                     binding protein [Arabidopsis thaliana]
   Seq. No.
                      142745
   Seq. ID
                      LIB3168-018-P1-K1-D6
   Method
                      BLASTX
   NCBI GI
                      g1628583
   BLAST score
                      638
                      6.0e-67
   E value
   Match length
                      133
   % identity
   NCBI Description
                      (U66916) 12S cruciferin seed storage protein [Arabidopsis
                      thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
                      142746
   Seq. No.
   Seq. ID
                     LIB3168-018-P1-K1-D8
   Method
                     BLASTX
                     g4204299
   NCBI GI
   BLAST score
                     598
   E value
                      3.0e-62
   Match length
                     135
```

Seq. ID

```
% identity
NCBI Description
                   (AC003027) lcl prt seg No definition line found
                   [Arabidopsis thaliana]
Seq. No.
                   142747
                   LIB3168-018-P1-K1-D9
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   639
E value
                   4.0e-67
                   123
Match length
                   99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142748
                   LIB3168-018-P1-K1-E1
Seq. ID
Method
                   BLASTX
NCBI GI,
                   q1628583
BLAST score
                   230
E value
                   7.0e-38
                   106
Match length
% identity
                   81
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142749
Seq. ID
                   LIB3168-018-P1-K1-E10
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   601
E value
                   1.0e-62
Match length
                   120
% identity
                   99
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir $08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142750
Seq. ID
                   LIB3168-018-P1-K1-E11
Method
                   BLASTX
NCBI GI
                   g115783
BLAST score
                   571
                   5.0e-59
E value
Match length
                   107
% identity
                   100
                   CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                   (CAB-140) (LHCP) >gi_16376_emb_CAA27543_ (X03909) chlorophyll a/b binding protein (LHCP AB 140) [Arabidopsis
                   thaliana]
                   142751
Seq. No.
```

LIB3168-018-P1-K1-E12

Seq. No.

Seq. ID

142755

LIB3168-018-P1-K1-E5

```
Method
                   BLASTX
NCBI GI
                   g115767
BLAST score
                   232
E value
                   2.0e-19
Match length
                   87
                   59
% identity
NCBI Description
                   CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
                   (CAB-165/180) (LHCP) >gi 81603.pir A29280 chlorophyll
                   a/b-binding protein ab165 - Arabidopsis thaliana
                   >gi_16368_emb_CAA27540_ (X03907) chlorophyll a/b binding
                   protein (LHCP AB 65) [Arabidopsis thaliana]
                   >gi 16372 emb CAA27541 (X03908) chlorophyll a/b binding
                   protein (LHCP AB 180) [Arabidopsis thaliana]
Seq. No.
                   142752
Seq. ID
                   LIB3168-018-P1-K1-E2
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   711
                   2.0e-75
E value
Match length
                   133
% identity
                   99
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142753
Seq. ID
                   LIB3168-018-P1-K1-E3
Method
                   BLASTN
NCBI GI
                   g2351071
BLAST score
                   390
E value
                   0.0e + 00
Match length
                   417
% identity
                   99
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MVA3, complete sequence [Arabidopsis thaliana]
Seq. No.
                   142754
Seq. ID
                   LIB3168-018-P1-K1-E4
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   574
E value
                   2.0e-59
Match length
                   125
% identity
                   88
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
```

```
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  620
                                    ~
E value
                  8.0e-65
Match length
                  120
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142756
Seq. No.
                  LIB3168-018-P1-K1-E6
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  706
E value
                  8.0e-75
                  138
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142757
Seq. No.
                  LIB3168-018-P1-K1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  652
E value
                  1.0e-68
Match length .
                  136
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142758
                  LIB3168-018-P1-K1-E8
Seq. ID
Method
                  BLASTX
                  q112682
NCBI GI
                  526
BLAST score
E value
                  7.0e-54
                  113
Match length
                  90
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142759
Seq. No.
Seq. ID
                  LIB3168-018-P1-K1-E9
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  628
E value
                  8.0e-66
Match length
                  123
```

```
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142760
Seq. ID
                  LIB3168-018-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  .g1255951
BLAST score
                  376
E value
                  3.0e-36
Match length
                  89
% identity
NCBI Description
                  (X96932) PS60 [Nicotiana tabacum]
                  142761
Seq. No.
Seq. ID
                  LIB3168-018-P1-K1-F10
Method
                  BLASTN
NCBI GI
                  g4757392
BLAST score
                  331
E value
                  0.0e + 00
Match length
                  377
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, TAC clone:
                  K14A17, complete sequence
Seq. No.
                  142762
Seq. ID
                  LIB3168-018-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  524
E value
                  1.0e-53
Match length.
                  129
% identity
                  79
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142763
Seq. ID
                  LIB3168-018-P1-K1-F2
Method
                  BLASTX
NCBI GI
                  g3249096
BLAST score
                  516
E value
                  1.0e-52
Match length
                  120
% identity
                  (AC003114) Match to mRNA for importin alpha-like protein 4
NCBI Description
                  (impa4) gb_Y14616 from A. thaliana. ESTs gb_N96440,
                  gb_N37503, gb_N37498 and gb_T42198 come from this gene.
```

[Arabidopsis thaliana]

E value

6.0e-60

```
142764
 Seq. No.
                    LIB3168-018-P1-K1-F4
 Seq. ID
Method
                    BLASTX
NCBI GI
                    g112682
 BLAST score
                    602
 E value
                    1.0e-62
Match length
                    135
                    86
 % identity
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    142765
                    LIB3168-018-P1-K1-F5
 Seq. ID
Method
                    BLASTX
NCBI GI
                    q112682
 BLAST score
                    436
 E value
                    2.0e-43
Match length
                    110
 % identity
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir SO8510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    142766
 Seq. ID
                    LIB3168-018-P1-K1-F6
 Method
                    BLASTX
 NCBI GI
                    g418908
BLAST score
                    218
 E value
                    1.0e-17
Match length
                    131
 % identity
                    37
NCBI Description vicilin precursor - cacao
 Seq. No.
                    142767
                    LIB3168-018-P1-K1-F7
 Seq. ID
Method
                    BLASTX
 NCBI GI
                    g2501064
 BLAST score
                    562
 E value
                    5.0e-58
                    136
Match length
 % identity
                    PROBABLE THREONYL-TRNA SYNTHETASE, CYTOPLASMIC
 NCBI Description
                    (THREONINE--TRNA LIGASE) (THRRS) >gi 2191162 (AF007270)
                    Similar to threonyl-tRNA synthetase; coded for by A.
                    thaliana cDNA R65376 [Arabidopsis thaliana]
 Seq. No.
                    142768
 Seq. ID
                    LIB3168-018-P1-K1-F8
                    BLASTX
Method
                    g112682
NCBI GI
BLAST score
                    578
```

Seq. ID

```
124
Match length
                  88
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142769
Seq. ID
                  LIB3168-018-P1-K1-F9
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  576
E value
                  1.0e-59
                  120
Match length
                  90
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142770
Seq. No.
                  LIB3168-018-P1-K1-G10
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4510392
BLAST score
                  122
E value
                  3.0e-62
Match length
                  282
% identity
                  92
                  Arabidopsis thaliana chromosome II BAC T17D12 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  142771
Seq. ID
                  LIB3168-018-P1-K1-G11
Method
                  BLASTN
NCBI GI
                  g2618677
BLAST score
                  152
E value
                  4.0e-80
Match length
                  228
                  92
% identity
                  Arabidopsis thaliana BAC F21B7 chromosome 1, complete
NCBI Description
                  sequence [Arabidopsis thaliana]
Seq. No.
                  142772
                  LIB3168-018-P1-K1-G2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204298
BLAST score
                  556
E value
                  3.0e-57
                  126
Match length
% identity
                  (AC003027) 1cl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  142773
```

LIB3168-018-P1-K1-G3

```
BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  617
                         .
E value
                  2.0e-64
                  127
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142774
Seq. ID
                  LIB3168-018-P1-K1-G4
Method
                  BLASTX
NCBI GI
                  q112743
BLAST score
                  628
                  1.0e-65
E value
                  132
Match length
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68856_pir NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142775
                  LIB3168-018-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204298
BLAST score
                  324
E value
                  3.0e-30
Match length
                  86
% identity
                  (AC003027) lcl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  142776
                  LIB3168-018-P1-K1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  569
                  8.0e-59
E value
                  133
Match length
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142777
Seq. No.
Seq. ID
                  LIB3168-018-P1-K1-G7
                  BLASTN
Method
NCBI GI
                  q3985955
BLAST score
                  307
E value
                  1.0e-172
```

Match length 360 % identity 99 NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MTH16, complete sequence [Arabidopsis thaliana] Seq. No. 142778 LIB3168-018-P1-K1-G8 Seq. ID Method BLASTN NCBI GI g3985955 BLAST score 207 E value 1.0e-113 Match length 306 % identity 92 NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MTH16, complete sequence [Arabidopsis thaliana] 142779 Seq. No. Seq. ID LIB3168-018-P1-K1-G9 Method BLASTX NCBI GI g112737 BLAST score 524 2.0e-53 E value Match length 134 77 % identity NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana] Seq. No. 142780 Seq. ID LIB3168-018-P1-K1-H1 Method BLASTX NCBI GI g1628583 BLAST score 717 E value 4.0e-76 Match length 140 % identity 100 NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 142781 Seq. ID LIB3168-018-P1-K1-H12 BLASTX Method NCBI GI . q112681 BLAST score 482 1.0e-48 E value Match length 115 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  142782
Seq. ID
                  LIB3168-018-P1-K1-H2
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  619
E value
                  1.0e-64
Match length
                  120
% identity
                  99
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142783
Seq. No.
Seq. ID
                  LIB3168-018-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  593
E value
                  1.0e-61
Match length
                  120
                  95
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142784
                  LIB3168-018-P1-K1-H6
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  631
E value
                  4.0e-66
Match length
                  124
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142785
Seq. ID
                  LIB3168-018-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  310
E value
                  1.0e-28
Match length
                  103
                  63
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142786
Seq. ID
                  LIB3168-018-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  q112739
```

```
BLAST score
                   44
E value :...
                   3.0e-26
Match length
                   109
% identity
                   63
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                   2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142787
Seq. ID
                   LIB3168-018-P1-K1-H9
Method
                   BLASTX
NCBI GI
                   q2832620
BLAST score
                   483
                   1.0e-48
E value
Match length
                   125
% identity
                   71
                   (AL021711) hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   142788
Seq. ID
                   LIB3168-019-P1-K1-A1
Method
                   BLASTX
NCBI GI
                   a1628583
BLAST score
                   619
E value
                   1.0e-64
Match length
                   120
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142789
Seq. No.
Seq. ID
                   LIB3168-019-P1-K1-A10
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   695
E value
                   1.0e-73
Match length
                   137
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142790
                   LIB3168-019-P1-K1-A11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g114532
                   550
BLAST score
E value
                   1.0e-56
Match length
                   119
% identity
                  ATP SYNTHASE ALPHA CHAIN >gi_67824_pir__PWNTA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain -
NCBI Description
```

common tobacco chloroplast >gi 11769 emb CAA23471 (V00162)



alpha subunit of ATPase [Nicotiana tabacum] >gi\_11811\_emb\_CAA77341\_ (Z00044) ATPase alpha subunit
[Nicotiana tabacum] >gi\_225270\_prf\_\_1211235E ATPase alpha [Nicotiana tabacum]

142791 Seq. No. Seq. ID LIB3168-019-P1-K1-A12

Method BLASTX NCBI GI g112737 BLAST score 540 2.0e-55

E value Match length 131 80 % identity

2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -

Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1
precursor [Arabidopsis thaliana]

Seq. No. 142792

LIB3168-019-P1-K1-A2 Seq. ID

Method BLASTX NCBI GI g112737 BLAST score 490 E value 2.0e-49 Match length 119 81 % identity

2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE NCBI Description

PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

precursor [Arabidopsis thaliana]

Seq. No. 142793

Seq. ID LIB3168-019-P1-K1-A4

Method BLASTX NCBI GI g1628583 BLAST score 560 E value 9.0e-58 139 Match length % identity 79

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142794

Seq. ID LIB3168-019-P1-K1-A6

Method BLASTN g4079614 NCBI GI BLAST score 48 1.0e-18

E value Match length 52 % identity 98

% identity

94

```
NCBI Description Arabidopsis thaliana chromosome I BAC F21M11 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   142795
                  LIB3168-019-P1-K1-A9
Seq. ID
Method
                  BLASTN
NCBI GI
                   g2864607
BLAST score
                  241
E value
                   1.0e-133
Match length
                   383
                   92
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F10M6
                   (ESSAII project)
Seq. No.
                   142796
Seq. ID
                  LIB3168-019-P1-K1-B1
Method
                  BLASTX
NCBI GI
                   g1628583
BLAST score
                   620
E value
                  9.0e-65
Match length
                  120
                   99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142797
Seq. ID
                  LIB3168-019-P1-K1-B12
Method
                  BLASTN
NCBI GI
                   g3335170
BLAST score
                  110
E value
                   3.0e-55
Match length
                  190
% identity
NCBI Description
                  Arabidopsis thaliana embryo-specific protein 3 (ATS3) gene,
                   complete cds
Seq. No.
                   142798
Seq. ID
                  LIB3168-019-P1-K1-B2
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  294
E value
                  8.0e-27
Match length
                  64
                  92
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142799
                  LIB3168-019-P1-K1-B4
Seq. ID
Method
                  BLASTN
NCBI GI
                  q16236
BLAST score
                  109
E value
                  1.0e-54
Match length
                  145
```

BLAST score

625

```
Arabidopsis CRB gene for 12S seed storage protein
NCBI Description
                   >gi_166677_gb_M37248_ATHCRBAA A.thaliana 12S storage
                   protein CRA1 gene, exons 1-4
                   142800
Seq. No.
Seq. ID
                   LIB3168-019-P1-K1-C1
Method
                   BLASTX
NCBI GI
                   q4204299
BLAST score
                   629
                   8.0e-66
E value
Match length
                   142
% identity
                   (AC003027) lcl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   142801
                   LIB3168-019-P1-K1-C10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2244897
BLAST score
                   307
E value
                   4.0e-28
Match length
                   134
                   52
% identity
                   (297338) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   142802
Seq. No.
                   LIB3168-019-P1-K1-C12
Seq. ID
Method
                   BLASTX
                   g112682
NCBI GI
BLAST score
                   310
E value
                   7.0e-50
Match length
                   131
                   73
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   tha\overline{1}iana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142803
                   LIB3168-019-P1-K1-C2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g464621
BLAST score
                   542
                   1.0e-55
E value
Match length
                   136
                   78
% identity
NCBI Description
                   60S RIBOSOMAL PROTEIN L6 (YL16-LIKE) >gi_280374_pir__S28586
                   ribosomal protein ML16 - common ice plant >gi_19539_emb_CAA49175_ (X69378) ribosomal protein YL16
                   [Mesembryanthemum crystallinum]
Seq. No.
                   142804
                   LIB3168-019-P1-K1-C9
Seq. ID
Method
                   BLASTX
                   q1628583
NCBI GI
```

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```
2.0e-65
E value
Match length
                  120
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142805
Seq. ID
                  LIB3168-019-P1-K1-D1
Method
                  BLASTN
NCBI GI
                  q1628582
BLAST score
                  55
E value
                   3.0e-22
Match length
                  210
                   42
% identity
NCBI Description
                  Arabidopsis thaliana 12S cruciferin seed storage protein
                   (ATCRU3) gene, complete cds
Seq. No.
                  142806
Seq. ID
                  LIB3168-019-P1-K1-D10
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  496
                  7.0e-64
E value
Match length
                  137
% identity
                  93
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142807
Seq. ID
                  LIB3168-019-P1-K1-D11
Method
                  BLASTN
NCBI GI
                  q2842474
BLAST score
                  50
E value
                  2.0e-19
Match length
                  86
% identity
                  90
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                   (ESSAII project)
Seq. No.
                  142808
Seq. ID
                  LIB3168-019-P1-K1-D2
Method
                  BLASTN
NCBI GI
                  g3212846
BLAST score
                  392
E value
                  0.0e + 00
Match length
                  392
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F6E13 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  142809
Seq. No.
Seq. ID
                  LIB3168-019-P1-K1-D4
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  625
```

Seq. ID

```
2.0e-65
E value
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142810
Seq. No.
Seq. ID
                  LIB3168-019-P1-K1-D5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  188
                  1.0e-14
E value
Match length
                  61
% identity
                  61
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142811
                  LIB3168-019-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  413
                  1.0e-40
E value
Match length
                  99
                  83
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142812
                  LIB3168-019-P1-K1-E10
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  681
E value
                  6.0e-72
Match length
                  131
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142813
Seq. No.
Seq. ID
                  LIB3168-019-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  246
E value
                  4.0e-21
                  72
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142814
```

LIB3168-019-P1-K1-E2

```
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  329
E value
                  1.0e-30
Match length
                  83
                  77
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142815
                  LIB3168-019-P1-K1-E3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  304
E value
                  6.0e-28
Match length
                  92
                  66
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142816
Seq. No.
Seq. ID
                  LIB3168-019-P1-K1-E4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  696
                  1.0e-73
E value
Match length
                  137
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142817
                  LIB3168-019-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  523
E value
                  1.0e-53
Match length
                  103
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                 142818
Seq. ID
                  LIB3168-019-P1-K1-E7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  718
E value
                  3.0e-76
Match length
                  136
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]
```

```
142819
Seq. No.
Seq. ID
                   LIB3168-019-P1-K1-E9
Method
                   BLASTX'
NCBI GI
                   g112681
BLAST score
                   549
                   2.0e-56
E value
Match length
                   129
                   83
% identity -
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   tha\overline{\text{liana}} >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   142820
Seq. No.
Seq. ID
                  LIB3168-019-P1-K1-F1
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   596
E value
                   6.0e-62
Match length
                   138
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142821
Seq. ID
                   LIB3168-019-P1-K1-F10
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   536
E value
                   6.0e-55
Match length
                   139
                   78
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   tha\overline{1}iana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142822
Seq. ID
                   LIB3168-019-P1-K1-F11
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   625
                   2.0e-65
E value
Match length
                   120
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  142823
                  LIB3168-019-P1-K1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  629
                  7.0e-66
E value
                  125
Match length
% identity
                  97
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142824
Seq. No.
                  LIB3168-019-P1-K1-F2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3868722
BLAST score
                  393
                  0.0e + 00
E value
Match length
                  409
% identity
                  99
                  Arabidopsis thaliana BAC T19G15, from chromosome V near
NCBI Description
                  60.5 cM, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142825
Seq. ID
                  LIB3168-019-P1-K1-F3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  634
E value
                  2.0e-66
Match length
                  127
% identity
                   98
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142826
                  LIB3168-019-P1-K1-F5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   625
E value
                   2.0e-65
Match length
                  120
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142827
                  LIB3168-019-P1-K1-F6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   455
                   1.0e-45
E value
                   92
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

## cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  142828
                  LIB3168-019-P1-K1-F9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  597
E value
                  4.0e-62
Match length
                  114
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142829
                  LIB3168-019-P1-K1-G1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4691223
BLAST score
                  394
E value
                  0.0e+00
Match length
                  409
                  99
% identity
                  Arabidopsis thaliana DNA chromosome 3, BAC clone F4F15
NCBI Description
                  (ESSA project)
Seq. No.
                  142830
Seq. ID
                  LIB3168-019-P1-K1-G10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142831
Seq. ID
                  LIB3168-019-P1-K1-G11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  187
E value
                  1.0e-14
Match length
                  65
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142832
Seq. ID
                  LIB3168-019-P1-K1-G2
Method
                  BLASTX
                  q3075399
NCBI GI
                  207
BLAST score
                  2.0e-16
E value
                  83
Match length
% identity
                  49
```

```
(AC004484) SF16-like protein [Arabidopsis thaliana]
NCBI Description
                  142833
Seq. No.
Seq. ID
                  LIB3168-019-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  619
E value
                  1.0e-64
                  120
Match length
% identity
                  99
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142834
Seq. ID
                  LIB3168-019-P1-K1-G9
Method
                  BLASTX
NCBI GI
                  g1170939
BLAST score
                  570
E value
                  6.0e-59
Match length
                  114
% identity
                  95
NCBI Description
                  S-ADENOSYLMETHIONINE SYNTHETASE 3 (METHIONINE
                  ADENOSYLTRANSFERASE 3) (ADOMET SYNTHETASE 3)
                  >gi_1084408_pir__S46540 methionine adenosyltransferase (EC
                  2.5.1.6) - tomato >gi 429108 emb CAA80867 (Z24743)
                  S-adenosyl-L-methionine synthetase [Lycopersicon
                  esculentum]
Seq. No.
                  142835
Seq. ID
                  LIB3168-019-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  248
E value
                  4.0e-21
Match length
                  76
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142836
                  LIB3168-019-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  554
E value
                  5.0e-57
Match length
                  134
% identity
                  81
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >qi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb_CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
```

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142837
Seq. No.
Seq. ID
                  LIB3168-019-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  g2252841
BLAST score
                  501
E value
                  8.0e-51
Match length
                  139
% identity
                  84
                  (AF013293) No definition line found [Arabidopsis thaliana]
NCBI Description
                  142838
Seq. No.
Seq. ID
                  LIB3168-019-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  617
                  2.0e-64
E value
                  120
Match length
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142839
Seq. No.
Seq. ID
                  LIB3168-019-P1-K1-H5
Method
                  BLASTX
NCBI GI
                  g2388582
BLAST score
                  133
E value
                  4.0e-20
Match length
                  53
% identity
                  (AC000098) Contains similarity to Rattus O-GlcNAc
NCBI Description
                  transferase (gb U76557). [Arabidopsis thaliana]
Seq. No.
                  142840
Seq. ID
                  LIB3168-019-P1-K1-H6
Method
                  BLASTX
NCBI GI
                  q112737
                  394
BLAST score
                  2.0e-38
E value
Match length
                  104
                  75
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  142841
Seq. ID
                  LIB3168-019-P1-K1-H9
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  549
E value
                  2.0e-56
Match length
                  129
```

83

% identity

12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 142842 Seq. ID LIB3168-020-P1-K1-A2 Method BLASTX NCBI GI q1170939 BLAST score 529 E value 4.0e-54 Match length 111 % identity 92 S-ADENOSYLMETHIONINE SYNTHETASE 3 (METHIONINE NCBI Description ADENOSYLTRANSFERASE 3) (ADOMET SYNTHETASE 3) >gi 1084408 pir S46540 methionine adenosyltransferase (EC 2.5.1.6) - tomato >gi\_429108\_emb\_CAA80867 (Z24743) S-adenosyl-L-methionine synthetase [Lycopersicon esculentum] 142843 Seq. No. Seq. ID LIB3168-020-P1-K1-A3 Method BLASTX NCBI GI g1628583 BLAST score 325 E value 1.0e-30 Match length 72 % identity 90 NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 142844 Seq. ID LIB3168-020-P1-K1-A4 Method BLASTX NCBI GI g4056467 BLAST score 662 E value 1.0e-69 Match length 128 % identity NCBI Description (AC005990) Strong similarity to gb AB006693 spermidine synthase from Arabidopsis thaliana. ESTs gb AA389822, gb\_T41794, gb\_N38455, gb\_AI100106, gb\_F14442 and gb\_F14256 come from this gene. [Arabidopsis thaliana]

Seq. No. 142845

Seq. ID LIB3168-020-P1-K1-A5

Method BLASTX NCBI GI g1628583 BLAST score 322 E value 8.0e-30 Match length 60 · % identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

BLAST score

537

```
Seq. No.
                   142846
Seq. ID
                   LIB3168-020-P1-K1-A6
                   BLASTX
Method
NCBI GI
                   g3334128
BLAST score
                   535
                   8.0e-55
E value
Match length
                   113
% identity
                   99
                   BIOTIN CARBOXYL CARRIER PROTEIN OF ACETYL-COA CARBOXYLASE
NCBI Description
                   PRECURSOR (BCCP) >gi 1066348 (U23155) acetyl-CoA
                   carboxylase biotin-containing subunit [Arabidopsis
                   thalianal
                   142847
Seq. No.
Seq. ID
                   LIB3168-020-P1-K1-A7
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   446
                   2.0e-44
E value
                   112
Match length
                   77
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   142848
Seq. No.
Seq. ID
                   LIB3168-020-P1-K1-A8
Method
                   BLASTN
NCBI GI
                   g4217996
BLAST score
                   219
                   1.0e-120
E value
Match length
                   390
                   100 🚆
% identity
                   Arabidopsis thaliana chromosome II BAC F24H14 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   142849
Seq. No.
Seq. ID
                   LIB3168-020-P1-K1-B1
Method
                   BLASTN
NCBI GI
                   q4581138
BLAST score
                   426
E value
                   0.0e + 00
Match length
                   441
                   99
% identity
                   Arabidopsis thaliana chromosome II BAC F1011 genomic
NCBI Description
                   sequence, complete sequence
                   142850
Seq. No.
                   LIB3168-020-P1-K1-B10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
```

Seq. ID

```
4.0e-55
 E value
 Match length
                    116
 % identity
                    87 .
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
 NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    142851
                    LIB3168-020-P1-K1-B11
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    q1531762
 BLAST score
                    195
 E value
                    6.0e-15
 Match length
                    51
                    75
 % identity
 NCBI Description (Y07765) S-adenosylmethionine decarboxylase [Arabidopsis
                 thaliana]
 Seq. No.
                   142852
                    LIB3168-020-P1-K1-B12
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g112681
 BLAST score
                    200
                    6.0e-30
 E value
 Match length
                    107
                    73
% identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
 NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    142853
                    LIB3168-020-P1-K1-B2
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g1653767
 BLAST score
                    286
                    1.0e-25
 E value
 Match length
                    133
 % identity
                   (D90916) oligopeptidase A [Synechocystis sp.]
 NCBI Description
 Seq. No.
                    142854
 Seq. ID
                    LIB3168-020-P1-K1-B3
 Method
                    BLASTX
 NCBI GI
                    q4678333
 BLAST score
                    602
                    9.0e-63
 E value
 Match length
                    125
 % identity -
                    (ALO49658) H+-transporting ATPase-like protein [Arabidopsis
 NCBI Description
                    thaliana]
 Seq. No.
                    142855
```

LIB3168-020-P1-K1-B5

```
BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  566
                  2.0e-58
E_value
Match length
                  140
                  79
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142856
                  LIB3168-020-P1-K1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3169569
BLAST score
                  519
E value
                  6.0e-53
Match length
                  105
% identity
                  100
NCBI Description
                  (AF062589) 3-keto-acyl-CoA thiolase 2 [Arabidopsis
                  thaliana] >gi 3220237 (AF062591) peroxisomal
                  3-keto-acyl-CoA thiolase 2 precursor [Arabidopsis thaliana]
Seq. No.
                  142857
Seq. ID
                  LIB3168-020-P1-K1-B7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  674
E value
                  4.0e-71
Match length
                  144
% identity
                  92
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142858
Seq. ID
                  LIB3168-020-P1-K1-B8
Method
                  BLASTX
                                                                              NCBI GI
                  a2833389
BLAST score
                  169
                  2.0e-12
E value
                  38
Match length
% identity
                  SOLUBLE GLYCOGEN (STARCH) SYNTHASE PRECURSOR (SS III)
NCBI Description
                  >gi 1200154 emb CAA65065 (X95759) glycogen (starch)
                  synthase [Solanum tuberosum]
Seq. No.
                  142859
                  LIB3168-020-P1-K1-B9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  378
E value
                  6.0e-37
                  73
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
142860
Seq. No.
                  LIB3168-020-P1-K1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  388
                  1.0e-37
E value
Match length
                  72
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142861
Seq. No.
                  LIB3168-020-P1-K1-C10
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  730
                  1.0e-77
E value
                  141
Match length
                  97
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142862
Seq. No.
                  LIB3168-020-P1-K1-C11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   620
                  9.0e-65
E value
                  120
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142863
Seq. No.
                  LIB3168-020-P1-K1-C4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4159702
BLAST score
                   323
E value
                  0.0e + 00
Match length
                   412
                   95
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K2N11, complete sequence
                  142864
Seq. No.
                  LIB3168-020-P1-K1-C5
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  718
                   3.0e-76
E value
                  140
Match length
```

~ Y.,

```
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142865
Seq. ID
                   LIB3168-020-P1-K1-C6
Method
                   BLASTX
NCBI GI
                   q112682
BLAST score
                   583
E value
                   2.0e-60
Match length
                   136
% identity
                   82
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142866
Seq. ID
                   LIB3168-020-P1-K1-C8
Method
                   BLASTX
NCBI GI
                   q4263771
                   318
BLAST score
E value
                   2.0e-29
Match length
                   82
% identity
                   70
NCBI Description
                   (AC006218) putative nonspecific lipid-transfer protein
                   precursor [Arabidopsis thaliana]
                   >gi_4726121_gb_AAD28321.1_AC006436_12 (AC006436) putative
                   nonspecific lipid-transfer protein precursor [Arabidopsis
                   thaliana]
Seq. No.
                   142867
Seq. ID
                   LIB3168-020-P1-K1-C9
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   614
E value
                   5.0e-64
Match length
                   141
% identity
                   84
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142868
Seq. ID
                   LIB3168-020-P1-K1-D1
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   625
E value
                   2.0e-65
Match length
                   123
                   98
% identity
```

% identity

79

```
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142869
Seq. No.
                  LIB3168-020-P1-K1-D10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  688
E value
                  9.0e-73
Match length
                  134
                  98
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142870
Seq. No.
                  LIB3168-020-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  334
                  3.0e-31
E value
Match length
                  62
% identity
                  100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142871
Seq. No.
Seq. ID
                  LIB3168-020-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  q4220476
BLAST score
                  498
E value
                  2.0e-50
Match length
                  108
% identity
                  (AC006069) ribophorin I-like protein [Arabidopsis thaliana]
NCBI Description
                  142872
Seq. No.
Seq. ID
                  LIB3168-020-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  g2062167
BLAST score
                  293
E value
                  2.0e-26
                  74
Match length
% identity
NCBI Description
                   (AC001645) Proline-rich protein APG isolog [Arabidopsis
                  thaliana]
Seq. No.
                  142873
                  LIB3168-020-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score .
                  533
E value
                  1.0e-54
Match length
                  141
```

Method

BLASTX

```
12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142874
Seq. ID
                  LIB3168-020-P1-K1-D6
Method
                  BLASTX
NCBI GI
                  q16245
BLAST score
                  173
E value
                  2.0e-12
Match length
                  49
% identity
NCBI Description
                  (X51514) precursor acetolactate synthase (670 AA)
                  [Arabidopsis thaliana]
Seq. No.
                  142875
Seq. ID
                  LIB3168-020-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  g2315135
BLAST score
                  296
E value
                  5.0e-33
Match length
                  81
% identity
NCBI Description
                  (AB003522) beta subunit of coupling factor one [Arabidopsis
                  thalianal
Seq. No.
                  142876
Seq. ID
                  LIB3168-020-P1-K1-D8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  562
E value
                  6.0e-58
Match length
                  142
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142877
                  LIB3168-020-P1-K1-D9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  628
E value
                  1.0e-65
Match length
                  127
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142878
Seq. No.
Seq. ID
                  LIB3168-020-P1-K1-E1
```

10

```
NCBI GI
                    q166570
BLAST score
                    198
E value
                    3.0e-15
                    97
Match length
% identity
                    (L04173) glycine rich protein [Arabidopsis thaliana]
NCBI Description
                    142879
Seq. No.
Seq. ID
                    LIB3168-020-P1-K1-E10
Method
                    BLASTX
NCBI GI
                    g131336
BLAST score
                    261
E value
                    1.0e-22
Match length
                    58
                    90
% identity
NCBI Description
                    PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >gi 72715 pir F2NT0P
                    photosystem II phosphoprotein psbH - common tobacco chloroplast >gi_11857_emb_CAA77374_ (Z00044) PSII 10kD
                    phosphoprotein [Nicotiana tabacum]
>gi_225225_prf__1211235BG photosystem II 10kD
phosphoprotein [Nicotiana tabacum]
Seq. No.
                    142880
Seq. ID
                    LIB3168-020-P1-K1-E11
Method
                    BLASTN
                                                                                     . .
NCBI GI
                    q12283
BLAST score
                    39
E value
                    6.0e-13
Match length
                    55
% identity
                    Spinach plastid psbB operon with genes for 10 kD
NCBI Description
                    phosphoprotein associated with photosystem II (psbH),
                    apocytochrome b6 and subunit 4 (petD) of cytochrome b6f
                    complex
Seq. No.
                    142881
                    LIB3168-020-P1-K1-E2
Seq. ID
Method
                    BLASTX
NCBI GI
                    g3150404
BLAST score
                    166
E value
                    2.0e-11
Match length
                    54
% identity
                     (AC004165) putative mitochondrial carrier protein
NCBI Description
                     [Arabidopsis thaliana]
Seq. No.
                    142882
                    LIB3168-020-P1-K1-E3
Seq. ID
                    BLASTX
Method
                    q1628583
NCBI GI
BLAST score
                    581
E value
                    3.0e-60
                    143
Match length
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
142883
Seq. No.
Seq. ID
                   LIB3168-020-P1-K1-E4
                   BLASTX
Method
NCBI GI
                   g1708025
BLAST score
                   582
E value
                   2.0e-60
Match length
                   136
                   85
% identity
                   GLYCEROL-3-PHOSPHATE DEHYDROGENASE [NAD+]
NCBI Description
                   >gi 840731 emb CAA56125 (X79677) glycerol-3-phosphate
                   dehydrogenase (NAD+) [Cuphea lanceolata]
Seq. No.
                   142884
Seq. ID
                   LIB3168-020-P1-K1-E5
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   566
E value
                   2.0e-58
Match length
                   136
% identity
                   81
NCBI Description
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142885
Seq. ID
                   LIB3168-020-P1-K1-E6
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   527
E value
                   7.0e-54
Match length
                   126
% identity
                   82
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   142886
                   LIB3168-020-P1-K1-E7
Seq. ID
Method
                   BLASTX
NCBI GI
                  g112681
BLAST score
                   621
                   7.0e-65
E value
Match length
                   141
% identity
                   85
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
```

storage protein [Arabidopsis thaliana]

```
142887
Seq. No.
Seq. ID
                  LIB3168-020-P1-K1-E8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  693
E value
                  2.0e-73
Match length
                  136
                  97
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142888
Seq. No.
Seq. ID
                  LIB3168-020-P1-K1-E9
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  552
                  8.0e-57
E value
Match length
                  135
% identity
                  79
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  142889
Seq. No.
                  LIB3168-020-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3413701
BLAST score
                  123
                  1.0e-06
E value
Match length
                  78
% identity
                  19
                  (AC004747) hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  142890
Seq. ID
                  LIB3168-020-P1-K1-F2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142891
Seq. No.
Seq. ID
                  LIB3168-020-P1-K1-F3
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  484
                  5.0e-49
E value
Match length
                  103
```

Method

BLASTN

```
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142892
Seq. No.
Seq. ID
                  LIB3168-020-P1-K1-F4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  363
E value
                  4.0e-35
                  75
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142893
Seq. ID
                  LIB3168-020-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  624
E value
                  2.0e-65
Match length
                  121
% identity
                  99
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142894
Seq. ID
                  LIB3168-020-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  611
E value
                  1.0e-63
Match length
                  139
% identity
                  85
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142895
Seq. ID
                  LIB3168-020-P1-K1-F7
Method
                  BLASTN
NCBI GI
                  g4388714
BLAST score
                  150
E value
                  1.0e-78
Match length
                  428
% identity
                  88
NCBI Description Arabidopsis thaliana chromosome II BAC F5K7 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142896
Seq. ID
                  LIB3168-020-P1-K1-F8
```

```
q2760168
NCBI GI
                    244
BLAST score
E value
                    1.0e-135
                    384
Match length
                    97
% identity
                    Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                    MEE6, complete sequence [Arabidopsis thaliana]
Seq. No.
                    142897
                    LIB3168-020-P1-K1-F9
Seq. ID
Method
                    BLASTX
NCBI GI
                    q115767
BLAST score
                    622
E value
                    5.0e-65
                    118
Match length
                    100
% identity
                    CHLOROPHYLL A-B BINDING PROTEIN OF LHCII TYPE I PRECURSOR
NCBI Description
                    (CAB-165/180) (LHCP) >gi_81603_pir__A29280 chlorophyll a/b-binding protein ab165 - Arabidopsis thaliana
                    >gi 16368 emb CAA27540 (X03907) chlorophyll a/b binding
                    protein (LHCP AB 65) [Arabidopsis thaliana]
                    >gi_16372_emb_CAA27541_ (X03908) chlorophyll a/b binding protein (LHCP AB 180) [Arabidopsis thaliana]
Seq. No.
                    142898
Seq. ID
                    LIB3168-020-P1-K1-G1
Method
                    BLASTN
NCBI GI
                    q2264311
BLAST score
                    70
E value
                    6.0e-31
Match length
                    183
% identity
                    92
NCBI Description
                    Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                    MLN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                    142899
                    LIB3168-020-P1-K1-G10
Seq. ID
Method
                    BLASTX
NCBI GI
                    g1628583
BLAST score
                    112
E value
                    8.0e-31
                    98
Match length
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    142900
Seq. ID
                    LIB3168-020-P1-K1-G11
Method
                    BLASTX
NCBI GI
                    g112743
BLAST score
                    .395
E value
                    1.0e-41
Match length
                    98
                    87
% identity
                    2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
```

PROTEIN) >gi 68856 pir NWMU4 2S albumin 4 precursor -

Arabidopsis thaliana >gi\_166617 (M22033) albumin 2S subunit 4 precursor [Arabidopsis thaliana] >gi\_395202\_emb\_CAA80869\_ (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana] >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4 precursor [Arabidopsis thaliana]

142901 Seq. No. LIB3168-020-P1-K1-G12 Seq. ID Method BLASTX NCBI GI q1628583 BLAST score 625 E value 2.0e-65 Match length 120

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142902

% identity

Seq. ID LIB3168-020-P1-K1-G2

Method BLASTX NCBI GI g112739 BLAST score 414 E value 1.0e-40 122 Match length % identity

2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE NCBI Description

PROTEIN) >gi\_68854\_pir\_\_NWMU2 2S albumin 2 precursor -

Arabidopsis thaliana >gi\_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi\_395205\_emb\_CAA80871\_ (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]

>gi\_4490711\_emb\_CAB38845.1\_ (AL035680) NWMU2-2S albumin 2

precursor [Arabidopsis thaliana]

Seq. No. 142903

Seq. ID LIB3168-020-P1-K1-G3

Method BLASTX NCBI GI a1628583 BLAST score 620 E value 8.0e-65 Match length 119 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 142904

Seq. ID LIB3168-020-P1-K1-G4

Method BLASTX NCBI GI q112682 BLAST score 556 E value. 3.0e-57 Match length 131 % identity

12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510 NCBI Description

cruciferin precursor (CRB) - Arabidopsis thaliana

>qi 166678 (M37248) 12S storage protein CRB [Arabidopsis

```
thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142905
Seq. No.
                  LIB3168-020-P1-K1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142906
                  LIB3168-020-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
                  564
BLAST score
                  3.0e-58
E value
Match length
                  140
                  79
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142907
Seq. No.
                  LIB3168-020-P1-K1-G8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g625977
BLAST score
                  618
E value
                  1.0e-64
Match length
                  121
% identity
                  99
NCBI Description
                  p40 protein homolog - Arabidopsis thaliana >gi 402904
                  (U01955) laminin receptor-like protein [Arabidopsis
                  thaliana]
                  142908
Seq. No.
Seq. ID
                  LIB3168-020-P1-K1-G9
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  620
E value
                  9.0e-65
Match length
                  120
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

Seq. No. 142909 Seq. ID LIB3168-020-P1-K1-H1

 Method
 BLASTN

 NCBI GI
 g4757401

 BLAST score
 205

 E value
 1.0e-111

cruciferin seed storage protein [Arabidopsis thaliana]

Method

BLASTX

```
416
Match length
                   98
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                   MGH6, complete sequence
                   142910
Seq. No.
                   LIB3168-020-P1-K1-H10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   331
E value
                   5.0e-31
Match length
                   69
                   100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   142911
Seq. No.
Seq. ID
                   LIB3168-020-P1-K1-H11
Method
                   BLASTN
NCBI GI
                   q1628582
BLAST score
                   67
E value
                   2.0e-29
Match length
                   191
                   84
% identity
NCBI Description
                   Arabidopsis thaliana 12S cruciferin seed storage protein
                   (ATCRU3) gene, complete cds
Seq. No.
                   142912
Seq. ID
                   LIB3168-020-P1-K1-H12
Method
                   BLASTX
NCBI GI
                   q112737
BLAST score
                   533
E value
                   1.0e-54
Match length
                   115
% identity
                   88
NCBI Description
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi_4490710_emb_CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   142913
Seq. ID
                   LIB3168-020-P1-K1-H2
Method
                   BLASTX
NCBI GI
                   q418908
BLAST score
                   182
E value
                   2.0e-13
                   75
Match length
% identity
NCBI Description
                   vicilin precursor - cacao
Seq. No.
                   142914
                   LIB3168-020-P1-K1-H4
Seq. ID
```

```
NCBI GI
                  g112682
BLAST score
                  609
E value
                  2.0e-63
Match length
                  140
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142915
Seq. No.
                  LIB3168-020-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  509
E value
                  6.0e-52
Match length
                  99
% identity
                  99
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142916
Seq. ID
                  LIB3168-020-P1-K1-H6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  621
E value
                  6.0e-65
Match length
                  136
% identity
                  89
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142917
Seq. ID
                  LIB3168-020-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  417
E value
                  4.0e-41
Match length
                  111
                  76
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142918
Seq. ID
                  LIB3168-020-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  g2245029
BLAST score
                  159
                  2.0e-20
E value
Match length
                  64
                  82
% identity
```

Seq. ID

```
NCBI Description (Z97341) limonene cyclase homolog [Arabidopsis thaliana]
Seq. No.
                  142919
                  LIB3168-020-P1-K1-H9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  678
E value
                  1.0e-71
Match length
                  140
% identity
                  92
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142920
Seq. ID
                  LIB3168-021-P1-K1-A1
Method.
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  544
E value
                  6.0e-56
Match length
                  126
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir_S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142921
                  LIB3168-021-P1-K1-A10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2351062
BLAST score
                  199
E value
                  1.0e-108
Match length
                  411
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MAH20, complete sequence [Arabidopsis thaliana]
Seq. No.
                  142922
Seq. ID
                  LIB3168-021-P1-K1-A11
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  559
E value
                  1.0e-57
                  132
Match length
                  80
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__ S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142923
Seq. No.
```

LIB3168-021-P1-K1-A12

```
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142924
Seq. No.
                  LIB3168-021-P1-K1-A2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  556
                  3.0e-57
E value
Match length
                  135
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142925
Seq. No.
                  LIB3168-021-P1-K1-A3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142926
Seq. No.
                  LIB3168-021-P1-K1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4567249
BLAST score
                  500
E value
                  1.0e-50
                  109
Match length
% identity
NCBI Description
                  (AC007070) hypothetical protein [Arabidopsis thaliana]
                  142927
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-A5
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  672
                  7.0e-71
E value
                  133
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

```
142928
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-A6
Method
                  BLASTN
NCBI GI
                   g2924257
BLAST score
                   41
E value
                   1.0e-13
Match length
                  157
% identity
                   89
NCBI Description
                  Tobacco chloroplast genome DNA
                   142929
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-A8
Method
                  BLASTX
NCBI GI
                   q112681
BLAST score
                   570
E value
                   6.0e-59
Match length
                   133
                   83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                  142930
Seq. ID
                  LIB3168-021-P1-K1-B1
Method
                  BLASTX
NCBI GI
                   g1628583
BLAST score
                   548
E value
                   2.0e-56
Match length
                   138
                   78
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142931
                  LIB3168-021-P1-K1-B10
Seq. ID
Method
                  BLASTX
NCBI GI
                   g21911
BLAST score
                   233
                   2.0e-19
E value
                  96
Match length
% identity
NCBI Description
                   (X62625) vicilin [Theobroma cacao]
Seq. No.
                  142932
                  LIB3168-021-P1-K1-B11
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
                   703
BLAST score
E value
                  2.0e-74
Match length
                  134
                   99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

Method

BLASTX

```
142933
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-B12
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  661
                  1.0e-69
E value
                  133
Match length
                  98
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{\text{liana}} >gi_808936_emb_CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142934
Seq. ID
                  LIB3168-021-P1-K1-B2
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  407
E value
                  8.0e-40
                  103
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142935
                  LIB3168-021-P1-K1-B3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  404
E value
                  2.0e-39
Match length
                  112
                  73
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142936
Seq. No.
                  LIB3168-021-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  531
E value
                  2.0e-54
                  138
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  142937
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-B5
```

```
NCBI GI
                  q1628583
BLAST score
                  276
E value
                  2.0e-33
Match length
                  113
% identity
                  73
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142938
Seq. ID
                  LIB3168-021-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  626
E value
                  2.0e-65
Match length
                  125
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis seed]
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142939
Seq. ID
                  LIB3168-021-P1-K1-B7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  611
E value
                  9.0e-64
                  117
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142940
                  LIB3168-021-P1-K1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142941
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

```
Seq. No.
                   142942
Seq. ID
                  LIB3168-021-P1-K1-C1
Method
                  BLASTX
NCBI GI
                   g1628583
BLAST score
                   619
                   1.0e-64
E value
                  120
Match length
% identity
                   99
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142943
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-C10
Method
                  BLASTX
NCBI GI
                   g1628583
BLAST score
                  625
E value
                   2.0e-65
Match length
                   120
% identity
                   100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142944
Seq. ID
                  LIB3168-021-P1-K1-C11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                   658
E value
                   3.0e-69
                  131
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142945
                  LIB3168-021-P1-K1-C12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2369714
BLAST score
                  534
E value
                   1.0e-54
Match length
                  116
% identity
                   91
NCBI Description
                  (Z97178) elongation factor 2 [Beta vulgaris]
Seq. No.
                  142946
                  LIB3168-021-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  545
E value
                  5.0e-56
Match length
                  138
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

Method

**BLASTX** 

```
142947
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  432
E value
                  9.0e-43
Match length
                  124
% identity
                  71
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  142948
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  500
E value
                  4.0e-58
Match length
                  130
                  76
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  142949
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  q4586265
BLAST score
                  238
E value
                  5.0e-20
Match length
                  89
                  52
% identity
NCBI Description
                  (AL049640) putative protein [Arabidopsis thaliana]
                  142950
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-C7
Method
                  BLASTN
NCBI GI
                  g4519183
BLAST score
                  88
E value
                  7.0e-42
Match length
                  120
% identity
                  93
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K15C23, complete sequence
Seq. No.
                  142951
Seq. ID
                  LIB3168-021-P1-K1-C8
```

Seq. ID

```
q2190016
NCBI GI
BLAST score
                  302
E value
                  2.0e-27
Match length
                  129
                  43
% identity
                  (AB004269) alliinase [Allium tuberosum]
NCBI Description
Seq. No.
                  142952
                  LIB3168-021-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  568
                  1.0e-58
E value
Match length
                  136
                  81
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142953
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-D1
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  635
E value
                  1.0e-66
Match length
                  137
                  91
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142954
Seq. ID
                  LIB3168-021-P1-K1-D11
Method
                  BLASTX
NCBI GI
                  q3135013
BLAST score
                  154
E value
                  4.0e-10
Match length
                  116
% identity
                  36
                  (AJ005963) 100 kDa protein [Ajellomyces capsulatus]
NCBI Description
Seq. No.
                  142955
Seq. ID
                  LIB3168-021-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142956
```

LIB3168-021-P1-K1-D2

```
BLASTX
Method
NCBI GI
                  a4249382
BLAST score
                  484
                  7.0e-49 ***
E value
Match length
                  113
                  78
% identity
                   (AC005966) Strong similarity to gi_3337350 F13P17.3
NCBI Description
                  putative permease from Arabidopsis thaliana BAC
                  gb AC004481. [Arabidopsis thaliana]
Seq. No.
                  142957
                  LIB3168-021-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  a4204299
BLAST score
                  468
                  6.0e-47
E value
                  92
Match length
% identity
                  100
                   (AC003027) lcl_prt_seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  142958
Seq. ID
                  LIB3168-021-P1-K1-D4
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  620
                  8.0e-65
E value
                  134
Match length
                  90
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142959
                  LIB3168-021-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  700
E value
                  4.0e-74
Match length
                  138
                  98
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142960
Seq. ID
                  LIB3168-021-P1-K1-D6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  621
E value
                  6.0e-65
Match length
                  120
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

```
Seq. No.
                  142961
                  LIB3168-021-P1-K1-D8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3513294
BLAST score
                  327
E value
                  2.0e-30
Match length
                  133
% identity
                  49
NCBI Description
                   (AC005591) PkB-like [Homo sapiens]
Seq. No.
                  142962
                  LIB3168-021-P1-K1-E10
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4539290
BLAST score
                  354
E value
                  0.0e+00
Match length
                  411
                  95
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F14M19
                   (ESSA project)
                  142963
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  506
E value
                  2.0e-51
Match length
                  136
% identity
                  79
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142964
Seq. ID
                  LIB3168-021-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  q4249382
BLAST score
                  483
E value
                  1.0e-48
Match length
                  111
% identity
                  78
                   (AC005966) Strong similarity to gi_3337350 F13P17.3
NCBI Description
                  putative permease from Arabidopsis thaliana BAC
                  gb AC004481. [Arabidopsis thaliana]
Seq. No.
                  142965
                  LIB3168-021-P1-K1-E2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  544
E value
                  7.0e-56
Match length
                  116
% identity
                  88
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
```

cruciferin precursor (CRB) - Arabidopsis thaliana

>qi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed storage protein [Arabidopsis thaliana]

Seq. No. 142966

LIB3168-021-P1-K1-E3 Seq. ID

Method BLASTX NCBI GI g1628583 BLAST score 703 E value 2.0e-74 Match length 134 % identity 99

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

142967 Seq. No.

LIB3168-021-P1-K1-E4 Seq. ID

Method BLASTX NCBI GI q112737 BLAST score 550 1.0e-56 E value Match length 133 % identity 80

2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE NCBI Description

PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana]

Seq. No. 142968

LIB3168-021-P1-K1-E5 Seq. ID

Method BLASTX NCBI GI g112682 BLAST score 570 6.0e-59 E value Match length 134 % identity 81

12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510 NCBI Description

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 142969

Seq. ID LIB3168-021-P1-K1-E6

Method BLASTX NCBI GI q112681 BLAST score 592 E value 2.0e-61 Match length 136 % identity

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis

Match length

64

```
storage protein [Arabidopsis thaliana]
                   142970
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-E8
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   692
                   3.0e-73
E value
Match length
                   132
                   99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   142971
Seq. ID
                  LIB3168-021-P1-K1-F1
Method
                  BLASTN
NCBI GI
                   g3337347
BLAST score
                   87
E value
                   2.0e-41
Match length
                   91
                   99
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F13P17 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
                   142972
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-F10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  703
E value
                  2.0e-74
Match length
                  135
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142973
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  -625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142974
Seq. ID
                  LIB3168-021-P1-K1-F12
Method
                  BLASTX
NCBI GI
                  g3660471
BLAST score
                  351
E value
                  3.0e-33
```

thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

```
% identity
                    (AJ001809) succinate dehydrogenase flavoprotein alpha
NCBI Description
                    subunit [Arabidopsis thaliana]
Seq. No.
                    142975
Seq. ID
                    LIB3168-021-P1-K1-F2
Method
                    BLASTX
NCBI GI
                    g112681
BLAST score
                    725
E value
                    4.0e-77
Match length
                    138
% identity
                    99
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936_emb_CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
Seq. No.
                    142976
Seq. ID
                    LIB3168-021-P1-K1-F5
Method
                    BLASTX
NCBI GI
                    q1628583
BLAST score
                    551
E value
                    1.0e-56
Match length
                    139
% identity
                    78
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    142977
Seq. ID
                    LIB3168-021-P1-K1-F6
Method
                    BLASTX
NCBI GI
                    q1345973
BLAST score
                    313
E value
                    8.0e-29
Match length
                    58
% identity
NCBI Description
                   OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
                   >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC
1.14.99.-) CF3 - Arabidopsis thaliana >gi_408483 (L22931)
                    omega-3 fatty acid desaturase [Arabidopsis thaliana]
                   >gi_471091_dbj_BAA04505_ (D17579) fatty acid desaturase
[Arabidopsis thaliana] >gi_1197795_dbj_BAA05514_ (D26508)
                   microsomal omega-3 fatty acid desaturase [Arabidopsis
                    thaliana] >gi 3420053 (AC004680) omega-3 fatty acid
                    desaturase [Arabidopsis thaliana]
                    142978
Seq. No.
Seq. ID
                   LIB3168-021-P1-K1-F7
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   599
E value
                   2.0e-62
Match length
                   120
                    96
% identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

Method

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]
```

```
142979
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-F8
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  144
E value
                  5.0e-09
Match length
                  123
                  76
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142980
Seq. ID
                  LIB3168-021-P1-K1-F9
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  564
E value
                  3.0e-58
Match length
                  132
% identity
                  81
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  142981
Seq. ID
                  LIB3168-021-P1-K1-G1
Method
                  BLASTN
NCBI GI
                  g4220637
BLAST score
                  73
E value
                  8.0e-33
Match length
                  340
% identity
                  88
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MIE1, complete sequence [Arabidopsis thaliana]
                  142982
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-G10
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  410
                  2.0e-40
E value
                  89
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142983
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-G11
```

BLASTX

Seq. ID

```
NCBI GI
                   g112737
                    540
BLAST score
                    2.0e-55
E value
Match length
                   131
                   80
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                    PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                    (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                    142984
Seq. No.
Seq. ID
                   LIB3168-021-P1-K1-G12
Method
                   BLASTX
NCBI GI
                   q112681
                    586
BLAST score
                    8.0e-61
E value
Match length
                   136
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    tha\overline{1}iana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
Seq. No.
                    142985
                   LIB3168-021-P1-K1-G2
Seq. ID
Method
                   BLASTX
NCBI GI
                    g112741
BLAST score
                    749
                    6.0e-80
E value
Match length
                    136
                    99
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                    PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                    (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                    >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                    precursor [Arabidopsis thaliana]
Seq. No.
                    142986
                   LIB3168-021-P1-K1-G4
Seq. ID
Method
                   BLASTX
NCBI GI
                    g1628583
BLAST score
                    395
E value
                    2.0e-38
Match length
                    109
                    73
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    142987
```

LIB3168-021-P1-K1-G5

```
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  730
                  1.0e-77
E value
                  140
Match length
                  99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  142988
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  q881615
BLAST score
                  715
E value
                  6.0e-76
Match length
                  138
                  100
% identity
NCBI Description
                   (U29142) fatty acid elongase 1 [Arabidopsis thaliana]
                  >gi_3096921_emb_CAA18831.1_ (AL023094) fatty acid elongase
                  1 [Arabidopsis thaliana]
                  142989
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-G7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  620
E value
                  8.0e-65
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142990
                  LIB3168-021-P1-K1-G9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4115935
BLAST score
                  414
E value
                  1.0e-40
Match length
                  80
% identity
                  (AF118223) contains similarity to Helicobacter pylori
NCBI Description
                  peptide methionine sulfoxide reductase (msrA) (GB:AE000542)
                  [Arabidopsis thaliana]
Seq. No.
                  142991
Seq. ID
                  LIB3168-021-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  380
E value
                  1.0e-36
                  97
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

```
142992
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-H10
Method
                  BLASTX
NCBI GI
                  g119350
BLAST score
                  553
E value
                  6.0e-57
Match length
                  116
                  94
% identity
NCBI Description
                  ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE)
                  (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) >gi_81608 pir__JQ1187
                  phosphopyruvate hydratase (EC 4.2.1.11) - Arabidopsis
                  thaliana >gi_16271 emb CAA41114 (X58107) enolase
                  [Arabidopsis thaliana]
                  >gi 4581151 gb AAD24635.1 AC006919 13 (AC006919) enolase
                  (2-phospho-D-glycerate hydroylase); identical to P25696
                  [Arabidopsis thaliana]
                  142993
Seq. No.
                  LIB3168-021-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1076331
BLAST score
                  150
E value
                  1.0e-09
                  52
Match length
% identity
                  histidine transport protein - Arabidopsis thaliana
NCBI Description
                  >gi_510238_emb_CAA54634_ (X77503) oligopeptide transporter
                  1-1 [Arabidopsis thaliana] >gi_744157_prf__2014244A His
                  transporter [Arabidopsis thaliana]
                  142994
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  665
E value
                  4.0e-70
Match length
                  131
                  97
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142995
Seq. ID
                  LIB3168-021-P1-K1-H2
Method.
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  618
                  1.0e-64
E value
                  132
Match length
                  91
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142996
Seq. ID
                  LIB3168-021-P1-K1-H3
```

• : :

```
Method
                  BLASTX
NCBI GI
                  q2132930
BLAST score
                 : 327
E value
                  2.0e-30
Match length
                  137
% identity
                  47
                  probable membrane protein YOR262w - yeast (Saccharomyces
NCBI Description
                  cerevisiae) >gi 1420591 emb CAA99484 (Z75170) ORF YOR262w
                   [Saccharomyces cerevisiae]
Seq. No.
                  142997
                  LIB3168-021-P1-K1-H4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  278
E value
                  2.0e-30
Match length
                  86
                  80
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  142998
Seq. ID
                  LIB3168-021-P1-K1-H6
Method
                  BLASTN
NCBI GI
                  q4406776
BLAST score
                  240
E value
                  1.0e-132
Match length
                  276
% identity
                  97
                  Arabidopsis thaliana chromosome II BAC F14H20 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  684
E value
                  3.0e-72
Match length
                  136
% identity
                  99
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143000
Seq. ID
                  LIB3168-021-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

```
143001
Seq. No.
Seq. ID
                  LIB3168-021-P1-K1-H9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  564
E value
                  2.0e-58
Match length
                  110
% identity
                  99
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143002
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-A10
Method
                  BLASTX
NCBI GI
                  g4567311
BLAST score
                  265
                  4.0e-23
E value
Match length
                  66
% identity
                  73
                   (AC005956) putative protein kinase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143003
Seq. ID
                  LIB3168-022-P1-K1-A11
Method
                  BLASTX
NCBI GI
                  q2129659
BLAST score
                  418
                  4.0e-41
E value
Match length
                  128
                  70
% identity
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                   (L40954) oleosin [Arabidopsis thaliana]
                  143004
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-A2
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  471
E value
                  2.0e-47
Match length
                  118
                  80
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143005
Seq. ID
                  LIB3168-022-P1-K1-A3
Method
                  BLASTN
NCBI GI
                  q3540210
BLAST score
                  296
E value
                  1.0e-166
Match length
                  400
% identity
                  94
                  Arabidopsis thaliana chromosome I BAC F5A8 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
```

Seq. ID

```
Seq. No.
                   143006
Seq. ID
                   LIB3168-022-P1-K1-A4
Method
                   BLASTX
NCBI GI
                   q4204299
BLAST score
                   658
E value
                   3.0e-69
Match length
                   130
% identity
                   98
NCBI Description
                   (AC003027) 1cl prt seg No definition line found
                   [Arabidopsis thaliana]
Seq. No.
                   143007
Seq. ID
                   LIB3168-022-P1-K1-A6
Method
                   BLASTX
NCBI GI
                   q266693
BLAST score
                   247
E value
                   5.0e-21
Match length
                   122
% identity
NCBI Description
                   OLEOSIN >gi_282875_pir__S22538 oleosin - Arabidopsis
                   thaliana >gi_16405_emb_CAA44225_ (X62353) oleosin
                   [Arabidopsis thaliana] >gi_4455257_emb_CAB36756.1_
                   (AL035523) oleosin, 18.5K [Arabidopsis thaliana]
Seq. No.
                   143008
Seq. ID
                   LIB3168-022-P1-K1-A7
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   67
E value
                   6.0e-15
Match length
                   62
% identity
                   60
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143009
Seq. ID
                   LIB3168-022-P1-K1-A8
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   573
E value
                   3.0e-59
Match length
                   132
                   82
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937 emb_CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143010
```

LIB3168-022-P1-K1-A9

```
Method
                  BLASTX
NCBI GI
                  q4406780
BLAST score
                  556
E value
                  2.0e-57
Match length
                  105
                  99
% identity
NCBI Description
                   (AC006532) putative multispanning membrane protein
                   [Arabidopsis thaliana]
                  143011
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-B1
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  611
E value
                  1.0e-63
Match length
                  139
% identity
                  85
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143012
                  LIB3168-022-P1-K1-B11
Seq. ID
Method
                  BLASTX
NCBI GI
                  a3980396
BLAST score
                  565
                  2.0e-58
E value
Match length
                  107
% identity
NCBI Description
                   (AC004561) putative C-4 sterol methyl oxidase [Arabidopsis
                  thaliana]
                  143013
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-B2
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  662
E value
                  1.0e-69
Match length
                  138
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir_ S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143014
                  LIB3168-022-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

14



thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
143015
Seq. No.
Seq. ID
                   LIB3168-022-P1-K1-B4
Method
                   BLASTX
NCBI GI
                   g3808062
                   231
BLAST score
                   3.0e-19
E value
                   136
Match length
% identity
                   38
                   (AB019195) PV100 [Cucurbita maxima]
NCBI Description
Seq. No.
                   143016
                   LIB3168-022-P1-K1-B5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   584
E value
                   1.0e-60
                   120
Match length
                   91
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143017
Seq. ID
                   LIB3168-022-P1-K1-B6
Method
                   BLASTX
NCBI GI
                   g4544445
BLAST score
                   221
E value
                   5.0e-18
Match length
                   110
% identity
                   45
NCBI Description
                   (AC006592) putative pyrophosphate--fructose 6-phosphate
                   1-phosphotransferase [Arabidopsis thaliana]
                   143018
Seq. No.
Seq. ID
                   LIB3168-022-P1-K1-B8
Method
                   BLASTN
NCBI GI
                   g4531433
                   275
BLAST score
E value
                   1.0e-153
Match length
                   279
% identity
                   100
NCBI Description
                   Arabidopsis thaliana chromosome II P1 MFL8 genomic
                   sequence, complete sequence
                   143019
Seq. No.
Seq. ID
                   LIB3168-022-P1-K1-B9
Method
                   BLASTX
NCBI GI
                   g2244759
BLAST score
                   474
                   1.0e-47
E value
Match length
                   126
                   77
% identity
```

Seq. ID

```
NCBI Description (Z97335) selenium-binding protein [Arabidopsis thaliana]
                   143020
Seq. No.
Seq. ID
                   LIB3168-022-P1-K1-C1
Method
                   BLASTX
NCBI GI
                   q112743
BLAST score
                   632
                   3.0e-66
E value
Match length
                   133
                   89
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                   Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                   4 precursor [Arabidopsis thaliana] >gi_395202_emb CAA80869_
                   (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                   >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143021
                   LIB3168-022-P1-K1-C10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   537
E value
                   4.0e-55
Match length
                   116
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143022
                   LIB3168-022-P1-K1-C12
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3915961
                   300
BLAST score
E value
                   1.0e-27
                   91
Match length
% identity
                   HYPOTHETICAL 267 KD PROTEIN (ORF 2280)
NCBI Description
                   >gi_2924274_emb_CAA77427_ (Z00044) Ycf2 protein [Nicotiana
tabacum] >gi_2924285_emb_CAA77438_ (Z00044) hypothetical
                   protein [Nicotiana tabacum]
                   143023
Seq. No.
                   LIB3168-022-P1-K1-C2
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   145
E value
                   5.0e-09
Match length
                   80
                   97
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
```

LIB3168-022-P1-K1-C4

```
Method
                   BLASTN
NCBI GI
                   q1223909
BLAST score
                   408
E value
                   0.0e + 00
                   412
Match length
% identity
                   100
                   Arabidopsis thaliana chaperonin-60 alpha subunit gene,
NCBI Description
                   nuclear gene encoding plastid protein, complete cds
Seq. No.
                   143025
Seq. ID
                   LIB3168-022-P1-K1-C5
                   BLASTX
Method
NCBI GI
                   q4204299
BLAST score
                   646
E value
                   8.0e-68
Match length
                   127
                   98
% identity
                   (AC003027) lcl_prt_seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   143026
                   LIB3168-022-P1-K1-C6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3660471
BLAST score
                   635
E value
                   1.0e-66
Match length
                   136
% identity
NCBI Description
                   (AJ001809) succinate dehydrogenase flavoprotein alpha
                   subunit [Arabidopsis thaliana]
Seq. No.
                   143027
                   LIB3168-022-P1-K1-C7
Seq. ID
Method
                   BLASTX
                   g1864017
NCBI GI
BLAST score
                   548
E value
                   2.0e-56
Match length
                   104
% identity
                   100
                   (D63396) elongation factor-1 alpha [Nicotiana tabacum]
NCBI Description
                   143028
Seq. No.
                   LIB3168-022-P1-K1-C8
Seq. ID.
Method
                   BLASTX
                   q112741
NCBI GI
BLAST score
                   579
E value
                   4.0e-60
Match length
                   107
% identity
                   100
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
```

```
Seq. No.
                  143029
Seq. ID
                  LIB3168-022-P1-K1-D1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  374
                   6.0e-36
E value
                  69
Match length
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143030
Seq. No.
                  LIB3168-022-P1-K1-D10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3885325
                  335
BLAST score
                  0.0e+00
E value
                  406
Match length
                  98
% identity
                  Arabidopsis thaliana chromosome II BAC T20P8 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  143031
Seq. No.
                  LIB3168-022-P1-K1-D11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204299
BLAST score
                  651
                  2.0e-68
E value
Match length
                  126
                  100
% identity
                   (AC003027) 1cl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  143032
                  LIB3168-022-P1-K1-D12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  359
                  3.0e-34
E value
Match length
                  66
% identity.
                  100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143033
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  g3249096
BLAST score
                  489
                  2.0e-49
E value
Match length
                  112
% identity
                   (AC003114) Match to mRNA for importin alpha-like protein 4
NCBI Description
                   (impa4) gb_Y14616 from A. thaliana. ESTs gb_N96440,
                  gb_N37503, gb_N37498 and gb_T42198 come from this gene.
```

E value Match length

## [Arabidopsis thaliana]

```
143034
Seq. No.
                  LIB3168-022-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
                  574
BLAST score
E value
                  2.0e-59
Match length
                  137
% identity
                  80
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143035
Seq. No.
                  LIB3168-022-P1-K1-D5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  301
                  3.0e-27
E value
Match length
                  91
                  73
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143036
                  LIB3168-022-P1-K1-D6
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143037
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  q4679028
BLAST score
                  331
                  6.0e-31
E value
Match length
                  134
% identity
NCBI Description
                  (AF077207) HSPC021 [Homo sapiens]
                  143038
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-D8
Method
                  BLASTX
NCBI GI
                  g112737
                  363
BLAST score
```

17601

5.0e-35

85

7

E value

2.0e-54

```
% identity
                   84
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                   143039
Seq. No.
                  LIB3168-022-P1-K1-E1
Seq. ID
Method
                  BLASTX
                   g112682
NCBI GI
BLAST score
                   556
                   3.0e-57
E value
Match length
                   131
                   81
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   tha\overline{1}iana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143040
Seq. No.
Seq. ID
                   LIB3168-022-P1-K1-E10
Method
                   BLASTX
                   g1628583
NCBI GI
BLAST score
                   625
E value
                   2.0e-65
Match length
                   120
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143041
Seq. No.
Seq. ID
                   LIB3168-022-P1-K1-E11
Method
                   BLASTX
NCBI GI
                   q112737
BLAST score
                   486
                   4.0e-49
E value
Match length
                   121
                   79
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   143042
Seq. No.
Seq. ID
                   LIB3168-022-P1-K1-E12
Method
                   BLASTX
NCBI GI
                   g2529683
BLAST score
                  55
```

E value

2.0e-57

```
132
Match length
                  79
% identity
NCBI Description
                  (AC002535) unknown protein [Arabidopsis thaliana]
                  143043
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-E2
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  357
                  5.0e-34
E value
Match length
                  73
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143044
                  LIB3168-022-P1-K1-E3
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4580365
                  247
BLAST score
E value
                  1.0e-137
Match length
                  293
% identity
NCBI Description
                  Arabidopsis thaliana chromosome I BAC F3F20 genomic
                  sequence, complete sequence
Seq. No.
                  143045
                  LIB3168-022-P1-K1-E4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  647
E value
                  6.0e-68
Match length
                  135
% identity
                  93
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143046
                  LIB3168-022-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  506
                  2.0e-51
E value
                  137
Match length
% identity
                  72
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143047
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-E8
Method
                  BLASTX
NCBI GI
                  q4512675
BLAST score
                  556
```

```
Match length
                  115
                  97
% identity
NCBI Description
                   (AC006931) putative citrate synthase [Arabidopsis thaliana]
Seq. No.
                  143048
                  LIB3168-022-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  702
E value
                  2.0e-74
Match length
                  132
                  100
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143049
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  g3335372
BLAST score
                  162
E value
                  4.0e-11
                  75
Match length
% identity
                  40
                   (AC003028) putative SRG1 protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143050
                  LIB3168-022-P1-K1-F11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  363 .
                  7.0e-35
E value
                  95
Match length
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143051
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-F12
Method
                  BLASTN
NCBI GI
                  q4199934
BLAST score
                  281
                  1.0e-157
E value
Match length
                  303
% identity
NCBI Description
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
                  complete sequence [Arabidopsis thaliana]
                  143052
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-F2
                  BLASTX
Method
                  q112682
NCBI GI
BLAST score
                  664
```

6.0e-70

E value

```
Match length
                   137
% identity
                   92
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143053
Seq. ID
                   LIB3168-022-P1-K1-F3
Method
                   BLASTN
NCBI GI
                   q2477521
BLAST score
                   408
E value
                   0.0e + 00
Match length
                   408
                   100
% identity
NCBI Description
                   Arabidopsis thaliana chromosome I BAC F22K20 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
Seq. ID
                   LIB3168-022-P1-K1-F4
Method
                   BLASTX
NCBI GI
                   q112682
BLAST score
                   536
E value
                   6.0e-55
Match length
                   116
                   88
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143055 -
Seq. No.
Seq. ID
                   LIB3168-022-P1-K1-F6
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   112
E value
                   3.0e-05
                   73
Match length
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143056
Seq. ID
                   LIB3168-022-P1-K1-F9
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   564
E value
                   2.0e-58
Match length
                   111
% identity
                   98
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No.

143062

```
Seq. No.
                    143057
 Seq. ID
                    LIB3168-022-P1-K1-G1
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    162
 E value
                    4.0e-11
 Match length
                    73
 % identity
                    100
 NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    143058
 Seq. No.
                    LIB3168-022-P1-K1-G10
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                   g1486472
 BLAST score
                    440
                    1.0e-43
 E value
 Match length
                    100
 % identity
                    86
                    (X99853) oxoglutarate malate translocator [Solanum
 NCBI Description
                    tuberosum]
 Seq. No.
                    143059
 Seq. ID
                    LIB3168-022-P1-K1-G11
 Method
                    BLASTX
 NCBI GI
                    q3513294
 BLAST score
                    331
 E value
                    6.0e-31
 Match length
                    133
 % identity
                    49
 NCBI Description
                    (AC005591) PkB-like [Homo sapiens]
Seq. No.
                    143060
 Seq. ID
                    LIB3168-022-P1-K1-G2
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    695
                    1.0e-73
 E value
 Match length
                    137
 % identity
                    100
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                    143061
 Seq. ID
                    LIB3168-022-P1-K1-G3
 Method
                    BLASTN
 NCBI GI
                    q4510392
 BLAST score
                    408
 E value
                    0.0e + 00
 Match length
                    412
                    100
 % identity
                   Arabidopsis thaliana chromosome II BAC T17D12 genomic
 NCBI Description
                    sequence, complete sequence
```

NCBI Description

```
Seq. ID
                  LIB3168-022-P1-K1-G4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143063
Seq. No.
                  LIB3168-022-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1246403
BLAST score
                   460
E value
                   5.0e-46
Match length
                  109
% identity
                   (X94698) TINY [Arabidopsis thaliana] >gi 3406035 (AC005405)
NCBI Description
                  TINY [Arabidopsis thaliana]
Seq. No.
                  143064
                  LIB3168-022-P1-K1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112251
BLAST score
                  78
E value
                   3.0e-01
Match length
                  120
% identity
                  polypyrimidine tract-binding protein 1 - rat
NCBI Description
                  >gi_57002_emb_CAA43202_ (X60789) pyrimidine binding protein
                  1 [Rattus norvegicus]
Seq. No.
                  143065
Seq. ID
                  LIB3168-022-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  523
E value
                  2.0e-53
Match length
                  136
% identity
                  77
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143066
                  LIB3168-022-P1-K1-G9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
                  683
BLAST score
E value
                  3.0e-72
                  128
Match length
% identity
                  99
```

2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

```
(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143067
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g600178
BLAST score
                  656
E value
                  5.0e-69
Match length
                  138
% identity
NCBI Description
                  (L27074) acetyl-CoA carboxylase [Arabidopsis thaliana]
                  >gi 1090217_prf__2018327A Ac-CoA carboxylase [Arabidopsis
                  thaliana]
                  143068
Seq. No.
                  LIB3168-022-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  569
E value
                  8.0e-59
Match length
                  133
% identity
                  83
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143069
                  LIB3168-022-P1-K1-H12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3395432
BLAST score
                  270
E value
                  9.0e-24
Match length
                  91
% identity
NCBI Description
                  (AC004683) unknown protein [Arabidopsis thaliana]
                  143070
Seq. No.
Seq. ID
                  LIB3168-022-P1-K1-H2
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  607
E value
                  3.0e-63
Match length
                  116
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

. .

143071

LIB3168-022-P1-K1-H3

Seq. No. Seq. ID

```
BLASTN
Method
                  q4159708
NCBI GI
BLAST score
                  41
                  3.0e-14
E value
                  113
Match length
                  84
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MKP6, complete sequence
Seq. No.
                  143072
                  LIB3168-022-P1-K1-H5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2947056
BLAST score
                  231
E value .
                  1.0e-127
Match length
                  323
% identity
                  93
                  Arabidopsis thaliana chromosome II BAC T20F6 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143073
Seq. ID
                  LIB3168-022-P1-K1-H6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  636
E value
                  1.0e-66
Match length
                  127
                  98
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143074
Seq. ID
                  LIB3168-022-P1-K1-H8
Method
                  BLASTN
NCBI GI
                  g2760165
BLAST score
                  197
E value
                  1.0e-107
Match length
                  410
% identity
                  99
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MAC9, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143075
                  LIB3168-022-P1-K1-H9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  335
E value
                  2.0e-31
Match length
                  62
% identity
                  100
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
```

Seq. ID

Method

## precursor [Arabidopsis thaliana]

```
143076
 Seq. No.
 Seq. ID
                    LIB3168-023-P1-K1-A1
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    625
 E value
                    2.0e-65
                    120
 Match length
                    100
 % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    143077
 Seq. No.
                    LIB3168-023-P1-K1-A10
 Seq. ID
                    BLASTX
 Method
                    g112681
 NCBI GI
 BLAST score
                    269
                    2.0e-59
 E value
 Match length
                    119
                    100
 % identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
 NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
                    143078
 Seq. No.
                    LIB3168-023-P1-K1-A11
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    q1628583
 BLAST score
                    614
                    4.0e-64
 E value
                    119
 Match length
 % identity
 NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
· Seq. No.
                    143079
 Seq. ID
                    LIB3168-023-P1-K1-A12
 Method
                    BLASTX
 NCBI GI
                    g112681
 BLAST score
                    576
 E value
                    1.0e-59
 Match length
                    133
 % identity
 NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
                    143080
 Seq. No.
```

LIB3168-023-P1-K1-A2

BLASTX

Seq. No.

143084

```
NCBI GI
                  g112681
BLAST score
                  675
                  4.0e-71
E value
                  139
Match length
                  97
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143081
                  LIB3168-023-P1-K1-A3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  315
E value
                  2.0e-56
Match length
                  139
                  82
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143082
Seq. No.
Seq. ID
                  LIB3168-023-P1-K1-A4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  723
                  7.0e-77
E value
Match length
                  138
% identity
                  99
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143083
                  LIB3168-023-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q119143
                  690
BLAST score
                  5.0e-73
E value
Match length
                  1.31
                  99
% identity
NCBI Description
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
                  >gi_81606_pir__S06724 translation elongation factor eEF-1
                  alpha chain - Arabidopsis thaliana >gi_295788_emb_CAA34453_
                  (X16430) elongation factor 1-alpha [Arabidopsis thaliana]
                  >gi_1369927_emb_CAA34454_ (X16431) elongation factor
                  1-alpha [Arabidopsis thaliana] >gi_1369928_emb_CAA34455
                  (X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                  >gi_1532172 (U63815) EF-1alpha-A1 [Arabidopsis thaliana]
                  >gi 1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                  >gi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
```

```
Seq. ID
                  LIB3168-023-P1-K1-A6
Method
                  BLASTX
                  g2117634
NCBI GI
BLAST score
                  154
                  3.0e-37
E value
                  137
Match length
                  60
% identity
                  lipoxygenase (EC 1.13.11.12) - common tobacco
NCBI Description
                  >gi 899344_emb_CAA58859_ (X84040) lipoxygenase [Nicotiana
                  tabacum]
                  143085
Seq. No.
                  LIB3168-023-P1-K1-A8
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  354
                  1.0e-33
E value
Match length
                  88
                  78
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143086
Seq. No.
                  LIB3168-023-P1-K1-A9
Seq. ID
                  BLASTX
Method
                  g112737
NCBI GI
BLAST score
                  464
                  1.0e-46
E value
                  116
Match length
                  78
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  143087
Seq. No.
                  LIB3168-023-P1-K1-B1
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143088
                  LIB3168-023-P1-K1-B10
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112682
                  686
BLAST score
                  2.0e-72
E value
```

Match length 142 % identity 92 NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510 cruciferin precursor (CRB) - Arabidopsis thaliana >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494 (X14313) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 143089 Seq. ID LIB3168-023-P1-K1-B11 Method BLASTX NCBI GI g112681 BLAST score 603 E value 9.0e-63 Match length 138 % identity NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509 cruciferin precursor (CRA1) - Arabidopsis thaliana >gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 143090 Seq. ID LIB3168-023-P1-K1-B12 Method BLASTX NCBI GI a1628583 BLAST score 625 2.0e-65 E value Match length 120 % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 143091 Seq. ID LIB3168-023-P1-K1-B2 Method BLASTX NCBI GI q1628583 BLAST score 607 E value 3.0e-63 Match length 116 % identity 100 NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 143092 LIB3168-023-P1-K1-B3 Seq. ID Method BLASTX NCBI GI g2129657 BLAST score 398 E value 1.0e-38

E value 1.0e-38
Match length 109

% identity 77

NCBI Description oleosin isoform - Arabidopsis thaliana

>gi\_987014\_emb\_CAA90877\_ (Z54164) oleosin [Arabidopsis
thaliana] >gi\_987016\_emb\_CAA90878\_ (Z54165) oleosin

## [Arabidopsis thaliana]

```
Seq. No.
                  143093
                  LIB3168-023-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3334123
                  686
BLAST score
                  2.0e-72
E value
                  139
Match length
                  100
% identity
                  ATP SYNTHASE GAMMA CHAIN, MITOCHONDRIAL PRECURSOR
NCBI Description
                  >gi_1655480_dbj_BAA13599_ (D88374) gamma subunit of
                  mitochondrial F1-ATPase [Arabidopsis thaliana] >gi 2924787
                  (ACO02334) mitochondrial F1-ATPase, gamma subunit
                  [Arabidopsis thaliana]
Seq. No.
                  143094
                  LIB3168-023-P1-K1-B5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
                  527
BLAST score
                  5.0e-54
E value
                  103
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143095
Seq. No.
                  LIB3168-023-P1-K1-B6
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  374
                  5.0e-36
E value
                  69
Match length
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143096
Seq. No.
Seq. ID
                  LIB3168-023-P1-K1-B8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  619
E value
                  9.0e-65
Match length
                  120
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143097
```

LIB3168-023-P1-K1-B9 Seq. ID

Method BLASTN NCBI GI q2182286

BLAST score 70

Method

**BLASTX** 

```
8.0e-32
E value
Match length
                  78
                  97
% identity
NCBI Description
                  Sequence of BAC F20P5 from Arabidopsis thaliana chromosome
                  1, complete sequence [Arabidopsis thaliana]
                  143098
Seq. No.
                  LIB3168-023-P1-K1-C11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  595
E value
                  7.0e-62
                  138
Match length
                  82
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir __S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143099
                  LIB3168-023-P1-K1-C12
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  620
BLAST score
E value
                  9.0e-65
                  120
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143100
Seq. No.
                  LIB3168-023-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3063451
BLAST score
                  662
                  1.0e-69
E value
Match length
                  129
% identity
                  (AC003981) F22013.13 [Arabidopsis thaliana]
NCBI Description
                  143101
Seq. No.
                  LIB3168-023-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  601
E value
                  1.0e-62
Match length
                  119
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495 emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143102
Seq. No.
                  LIB3168-023-P1-K1-C4
Seq. ID
```

```
NCBI GI
                  q1628583
BLAST score
                  386
E value
                  5.0e-68
Match length
                  137
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143103
Seq. No.
Seq. ID
                  LIB3168-023-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143104
Seq. No.
Seq. ID
                  LIB3168-023-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  637
E value
                  3.0e-71
Match length
                  138
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143105
                  LIB3168-023-P1-K1-C8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  5'6
E value
                  7.0e-70
Match length
                  132
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143106
                  LIB3168-023-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q469467
BLAST score
                  671
                  9.0e-71
E value
Match length
                  124
% identity
                  99
```

```
(X77943) alcohol dehydrogenase [Arabidopsis thaliana]
NCBI Description
                   >gi_1944214_dbj_BAA19619_ (D84244) alcohol dehydrogenase
                   [Arabidopsis thaliana] >gi_2570194_dbj_BAA22981_ (D63463) alcohol dehydrogenase [Arabidopsis thaliana] >gi_2829917
                   (AC002291) Alcohol Dehydrogenase [Arabidopsis thaliana]
                   143107
Seq. No.
                   LIB3168-023-P1-K1-D10
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112681
BLAST score
                   605
                   5.0e-63
E value
                   139
Match length
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143108
                   LIB3168-023-P1-K1-D11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   106
                   2.0e-04
E value
Match length
                   65
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143109
Seq. No.
                   LIB3168-023-P1-K1-D2
Seq. ID
Method
                   BLASTX
                   q1628583
NCBI GI
BLAST score
                   358
                   5.0e-34
E value
Match length
                   90
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143110
                   LIB3168-023-P1-K1-D3
Seq. ID
Method
                   BLASTX
                   g112682
NCBI GI
                   641
BLAST score
E value
                   3.0e-67
                   141
Match length
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_ S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937_emb_CAA32494_ (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
143111
Seq. No.
                  LIB3168-023-P1-K1-D4
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  625
BLAST score
E value
                  2.0e-65
                  120
Match length
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143112
Seq. No.
                  LIB3168-023-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score .
                  428
                  3.0e-42
E`value
                  88
Match length
                  95
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143113
Seq. No.
                  LIB3168-023-P1-K1-D6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2129789
BLAST score
                  484
E value
                  8.0e-49
Match length
                  127
                  78
% identity
                  biotin carboxyl carrier protein precursor (clone BP4) -
NCBI Description
                  rape >gi_1070006_emb_CAA62264_ (X90730) Biotin carboxyl
                  carrier protein [Brassica napus] >gi_1589043_prf__2210244D
                  Ac-CoA carboxylase: ISOTYPE=bp4 [Brassica napus]
Seq. No.
                  143114
Seq. ID
                  LIB3168-023-P1-K1-D7
Method
                  BLASTX
                  g4741191
NCBI GI
                  204
BLAST score
E value
                  5.0e-16
Match length
                  42
% identity
NCBI Description
                   (AL049746) ABC transporter-like protein [Arabidopsis
                  thalianal
                  143115
Seq. No.
Seq. ID
                  LIB3168-023-P1-K1-D8
                  BLASTN
Method
                  q4589450
NCBI GI
BLAST score
                  161
                  3.0e-85
E value
```

BLAST score

716

```
Match length -
                  412
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  T31K7, complete sequence
                  143116
Seq. No.
                  LIB3168-023-P1-K1-D9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143117
Seq. No.
                  LIB3168-023-P1-K1-E1
Seq. ID
Method
                  BLASTX
                  g4249382
NCBI GI
BLAST score
                  486
E value
                  4.0e-49
Match length
                  113
% identity
                  78
NCBI Description
                   (AC005966) Strong similarity to gi_3337350 F13P17.3
                  putative permease from Arabidopsis thaliana BAC
                  gb AC004481. [Arabidopsis thaliana]
                  143118
Seq. No.
Seq. ID
                  LIB3168-023-P1-K1-E10
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  473
                  1.0e-47
E value
Match length
                  134
% identity
                  72
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143119
Seq. ID
                  LIB3168-023-P1-K1-E11
Method
                  BLASTN
NCBI GI
                  g3402745
BLAST score
                  225
E value
                  1.0e-123
Match length
                  364
% identity
                  99
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F18E5
                   (ESSAII project)
Seq. No.
                  143120
                  LIB3168-023-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
```

```
5.0e-76
E value
Match length
                  133
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201 emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712 emb CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143121
Seq. No.
                  LIB3168-023-P1-K1-E2
Seq. ID
Method
                  BLASTX
                  g112739
NCBI GI
                  425
BLAST score
                  6.0e-42
E value
                  121
Match length
                  71
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143122
                  LIB3168-023-P1-K1-E3
Seq. ID
                  BLASTX
Method
                  q1628583
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S.
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143123
Seq. No.
                  LIB3168-023-P1-K1-E4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity .
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143124
Seq. No.
                  LIB3168-023-P1-K1-E5
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
                  709
BLAST score
```

3.0e-75

E value

```
Match length
                    136
% identity
                    98
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
Seq. No.
                    143125
                    LIB3168-023-P1-K1-E6
Seq. ID
Method
                    BLASTX
                    q3980407
NCBI GI
                    262
BLAST score
                    8.0e-23
E value
Match length
                    110
% identity
                    (AC004561) putative receptor-like protein kinase
NCBI Description
                    [Arabidopsis thaliana]
                    143126
Seq. No.
                    LIB3168-023-P1-K1-E7
Seq. ID
Method
                    BLASTX
NCBI GI
                    g1628583
BLAST score
                    621
E value
                    6.0e-65
Match length
                    119
                    100
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    143127
                    LIB3168-023-P1-K1-E8
Seq. ID
Method
                    BLASTX.
                    q1791309
NCBI GI
BLAST score
                    509
E value
                    8.0e-52
                    102
Match length
                    99
% identity
                    (U83500) cystathionine gamma-synthase [Arabidopsis
NCBI Description
                    thaliana] >gi_2852454_dbj_BAA24699_ (AB010888)
                    cystathionine gamma-synthase [Arabidopsis thaliana]
                    143128
Seq. No.
                    LIB3168-023-P1-K1-E9
Seq. ID
                    BLASTX
Method
NCBI GI
                    q3183454
BLAST score
                    236
E value
                    9.0e-20
Match length
                    103
% identity
                    HYPOTHETICAL 30.7 KD PROTEIN IN MCPC-KINA INTERGENIC REGION
NCBI Description
                    >gi_2632217_emb_CAA10859_ (AJ222587) YkwC protein [Bacillus subtilis] >gi_2633767_emb_CAB13269_ (Z99111) similar to 3-hydroxyisobutyrate dehydrogenase [Bacillus subtilis]
```

143129

Seq. No.

Seq. ID

```
LIB3168-023-P1-K1-F10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   644
E value
                   1.0e-67
Match length
                   127
% identity
                   99
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143130
Seq. No.
Seq. ID
                   LIB3168-023-P1-K1-F11
Method
                   BLASTX
                   q112741
NCBI GI
                   331
BLAST score
                   3.0e-31
E value
Match length
                   86
                   77
% identity
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143131
Seq. ID
                   LIB3168-023-P1-K1-F12
Method
                   BLASTX
NCBI GI
                   g112681
                   607
BLAST score
                   3.0e-63
E value
Match length
                   121
% identity
                   99
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   tha\overline{\text{liana}} >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143132
Seq. No.
Seq. ID
                   LIB3168-023-P1-K1-F2
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   162
E value
                   4.0e-11
                   60
Match length
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S-
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143133
Seq. No.
```

LIB3168-023-P1-K1-F3

Seq. ID

```
Method
                   BLASTN
                   g4581161
NCBI GI
BLAST score
                   69
E value
                   5.0e-31
Match length
                   105
% identity
                  Arabidopsis thaliana chromosome II BAC T20G20 genomic
NCBI Description
                   sequence, complete sequence
Seq. No.
                   143134
                   LIB3168-023-P1-K1-F4
Seq. ID
Method
                   BLASTX
                   g112737
NCBI GI
BLAST score
                   673
                   5.0e-71
E value
Match length
                   139
                   91
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   143135
Seq. No.
Seq. ID
                   LIB3168-023-P1-K1-F5
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   299
E value
                   4.0e-27
Match length
                   129
                   52
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143136
                   LIB3168-023-P1-K1-F6
Seq. ID ...
Method
                   BLASTX
NCBI GI
                   q112682
                   284
BLAST score
E value
                   6.0e-26
Match length
                   52
% identity
                   100
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
```

LIB3168-023-P1-K1-F7

NCBI GI

E value

BLAST score

q112682

7.0e-53

518

```
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   442
E value
                   3.0e-47
Match length
                   141
                   77
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143138
Seq. No.
Seq. ID
                   LIB3168-023-P1-K1-F8
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   534
E value
                   9.0e-55
Match length
                   126
% identity
                   83
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143139
                   LIB3168-023-P1-K1-F9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3023848
BLAST score
                   620
E value
                   9.0e-65
                   123
Match length
% identity
NCBI Description
                   GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE
                   PROTEIN (WD-40 REPEAT AUXIN-DEPENDENT PROTEIN ARCA)
                   >gi 2289095 (U77381) WD-40 repeat protein [Arabidopsis
                   thaliana]
Seq. No.
                   143140
Seq. ID
                   LIB3168-023-P1-K1-G1
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   625
E value
                   2.0e-65
Match length
                   120
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143141
Seq. ID
                   LIB3168-023-P1-K1-G10
Method
                   BLASTX
```

Match length 111 % identity 87

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 143142

Seq. ID LIB3168-023-P1-K1-G11

Method BLASTX NCBI GI q3860261 BLAST score 314 7.0e-29 E value Match length 115 % identity

NCBI Description (AC005824) putative acidic ribosomal protein [Arabidopsis

thaliana]

Seq. No. 143143

Seq. ID LIB3168-023-P1-K1-G12

Method BLASTX NCBI GI q1628583 BLAST score 625 2.0e-65 E value Match length 120 100 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 143144

Seq. ID LIB3168-023-P1-K1-G2

Method BLASTX NCBI GI q112681 BLAST score 746 2.0e-79 E value Match length 142 % identity 99

12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 NCBI Description

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis

thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 143145

Seq. ID LIB3168-023-P1-K1-G3

Method BLASTX NCBI GI q2244749 BLAST score 325 E value 3.0e-54Match length 111 % identity 98

NCBI Description (Z97335) hydroxymethyltransferase [Arabidopsis thaliana]

Seq. No. 143146

Seq. ID LIB3168-023-P1-K1-G4

```
BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  568
E value
                  1.0e-58
Match length
                  141
                  79
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143147
                  LIB3168-023-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  a112682
BLAST score
                  612
                  6.0e-64
E value
Match length
                  116
                  100
% identity.
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937 emb_CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143148
Seq. ID
                  LIB3168-023-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  a1169476
BLAST score
                  633
                  3.0e-66
E value
Match length
                  121
                  100
% identity
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
NCBI Description
                  ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632)
                  vitronectin-like adhesion protein [Nicotiana tabacum]
Seq. No.
                  143149
Seq. ID
                  LIB3168-023-P1-K1-H1
Method
                  BLASTX
NCBI GI-
                  q1628583
BLAST score
                  569
E value
                  8.0e-59
Match length
                  141
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143150
Seq. No.
                  LIB3168-023-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  212
BLAST score
                  6.0e-17
E value
                  78
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```



## thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
143151
Seq. No.
                   LIB3168-023-P1-K1-H11
Seq. ID
                   BLASTX
Method
NCBI GI
                   g4204277
BLAST score
                   684
E value
                   3.0e-72
Match length
                   126
                   100
% identity
                   (AC004146) Hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   143152
Seq. No.
Seq. ID
                   LIB3168-023-P1-K1-H12
Method
                   BLASTX
NCBI GI
                   g2117937
                   521
BLAST score
E value
                   5.0e-56
Match length
                   128
% identity
NCBI Description
                   UTP--glucose-1-phosphate uridylyltransferase (EC 2.7.7.9) -
                   barley >gi_1212996_emb_CAA62689_ (X91347) UDP-glucose
                   pyrophosphorylase [Hordeum vulgare]
Seq. No.
                   143153
Seq. ID
                   LIB3168-023-P1-K1-H3
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   556
                   2.0e-57
E value
Match length
                   125
                   85
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143154
Seq. ID
                   LIB3168-023-P1-K1-H4
Method .
                   BLASTX
NCBI GI
                   g1345973
BLAST score
                   471
                   3.0e-47
E value
Match length
                   111
                   78
% identity
                   OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                   >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC
1.14.99.-) CF3 - Arabidopsis thaliana >gi_408483 (L22931)
                   omega-3 fatty acid desaturase [Arabidopsis thaliana]
                   >gi 471091 dbj BAA04505 (D17579) fatty acid desaturase
                   [Arabidopsis thaliana] >gi 1197795 dbj BAA05514 (D26508)
```

desaturase [Arabidopsis thaliana]

microsomal omega-3 fatty acid desaturase [Arabidopsis thaliana] >gi 3420053 (AC004680) omega-3 fatty acid

Method

BLASTN

```
Seq. No.
                  143155
Seq. ID
                  LIB3168-023-P1-K1-H6
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  525
                  1.0e-53
E value
Match length
                  134
                  81
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143156
Seq. No.
                  LIB3168-023-P1-K1-H8
Seq. ID
Method
                  BLASTX
                  g1172556
NCBI GI
                  217
BLAST score
                  2.0e-17
E value
Match length
                  82.
                  49
% identity
                  36 KD OUTER MITOCHONDRIAL MEMBRANE PROTEIN PORIN
NCBI Description
                  (VOLTAGE-DEPENDENT ANION-SELECTIVE CHANNEL PROTEIN) (VDAC)
                  (POM 36) >gi_629729_pir__S46925 porin II, 36K - potato
                  >gi_1076681_pir__B55364 porin (clone pPOM 36.2) - potato
                  mitochondrion >gi 515360 emb CAA56600 (X80387) 36kDA porin
                  II [Solanum tuberosum]
Seq. No.
                  143157
                  LIB3168-024-P1-K1-A11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4512656
                  406
BLAST score
                  0.0e + 00
E value
                  406
Match length
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F7D19 genomic
                  sequence, complete sequence
                  143158
Seq. No.
                  LIB3168-024-P1-K1-A12
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  574
E value
                  2.0e-59
Match length
                  134
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143159
Seq. No.
                  LIB3168-024-P1-K1-A2
Seq. ID
```

```
g3402695
 NCBI GI
 BLAST score
                   259
                   1.0e-144
E value
 Match length
                   400
                   100
 % identity
                   Arabidopsis thaliana chromosome II BAC T3K9 genomic
 NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                   143160
                   LIB3168-024-P1-K1-A3
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g112681
                   689
 BLAST score
 E value
                   7.0e-73
Match length
                   137
 % identity
                   99
 NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143161
 Seq. No.
 Seq. ID
                   LIB3168-024-P1-K1-A4
 Method
                   BLASTX
 NCBI GI
                   g2708750
 BLAST score
                   310
 E value
                   2.0e-28
Match length
                   128
 % identity
                   (AC003952) putative physical impedence protein [Arabidopsis
 NCBI Description
                   thaliana]
                   143162
 Seq. No.
 Seq. ID
                   LIB3168-024-P1-K1-A5
 Method
                   BLASTX
 NCBI GI
                   g112681
 BLAST score
                   581
 E value
                   3.0e-60
Match length
                   134
                   84
 % identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
 NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
 Seq. No.
                   143163
 Seq. ID
                   LIB3168-024-P1-K1-A6
Method
                   BLASTN
 NCBI GI
                   g1813353
 BLAST score
                   206
 E value
                   1.0e-112
                   290
Match length
                   98
 % identity
```

NCBI Description Arabidopsis thaliana AtCR20-1 mRNA

2.5

```
143164
Seq. No.
Seq. ID
                   LIB3168-024-P1-K1-A7
                   BLASTX
Method
NCBI GI
                   g2769642
BLAST score
                    554
E value
                    4.0e-57
Match length
                   131
% identity
                    77
                    (Z97215) nine-cis-epoxycarotenoid dioxygenase [Lycopersicon
NCBI Description
                   esculentum]
                   143165
Seq. No.
Seq. ID
                   LIB3168-024-P1-K1-A8
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                    625
E value
                    2.0e-65
                   120
Match length
% identity
                   100
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    143166
Seq. ID
                   LIB3168-024-P1-K1-A9
Method
                   BLASTX
NCBI GI
                   g2129657
BLAST score
                   315
E value
                    4.0e-29
Match length
                   93
                   73
% identity
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014 emb_CAA90877_ (Z54164) oleosin [Arabidopsis thaliana] >gi_987016 emb_CAA90878_ (Z54165) oleosin
                    [Arabidopsis thaliana]
Seq. No.
                   143167
Seq. ID
                   LIB3168-024-P1-K1-B1
Method
                   BLASTX
NCBI GI
                   g4589972
BLAST score
                   228
                   7.0e-19
E value
                   95 .
Match length
% identity
                    67
                    (AC007195) putative indole-3 acetic acid induced protein
NCBI Description
                    (ARG7) [Arabidopsis thaliana]
Seq. No.
                   143168
Seq. ID
                   LIB3168-024-P1-K1-B10
Method
                   BLASTN
NCBI GI
                   g2244991
BLAST score
                   322
                   0.0e + 00
E. value
Match length
                   402
                   95
% identity
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
```

fragment No

```
Seq. No.
                  143169
Seq. ID
                  LIB3168-024-P1-K1-B11
Method
                  BLASTX
                   g1350768
NCBI GI
BLAST score
                   452
E value
                   4.0e-45
Match length
                  105
% identity
                   86
NCBI Description
                  60S RIBOSOMAL PROTEIN L7A
Seq. No.
                   143170
                  LIB3168-024-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                   q1399277
BLAST score
                   479
E value
                   2.0e-48
Match length
                   92
                   99
% identity
NCBI Description
                   (U31836) calmodulin-domain protein kinase CDPK isoform 7
                   [Arabidopsis thaliana]
Seq. No.
                   143171
Seq. ID
                  LIB3168-024-P1-K1-B2
Method
                  BLASTN
NCBI GI
                   g3172156
BLAST score
                   278
E value
                   1.0e-155
Match length
                   282
                   100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome 1 BAC T22J18 sequence,
                   complete sequence [Arabidopsis thaliana]
                   143172
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-B3
Method
                  BLASTX
NCBI GI
                   q82426
BLAST score
                  522
E value
                   3.0e-53
Match length
                   106
% identity
                   46
NCBI Description
                  ubiquitin precursor - barley (fragment)
                   >gi_755763_emb_CAA27751_ (X04133) ubiquitin polyprecursor
                   (171 aa) [Hordeum vulgare]
Seq. No.
                   143173
Seq. ID
                  LIB3168-024-P1-K1-B4
Method
                  BLASTX
NCBI GI
                   q3150407
BLAST score
                  511
E value
                   5.0e-52
Match length
                  97
% identity
                   100
NCBI Description
                   (AC004165) hypothetical protein [Arabidopsis thaliana]
                   143174
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-B5
```

```
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  649
E value
                  4.0e-68
Match length
                  131
% identity
                  95
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143175
Seq. ID
                  LIB3168-024-P1-K1-B8
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  685
                  2.0e-72
E value
Match length
                  128
                  99
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir_ NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143176
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  q2961390
BLAST score
                  541
E value
                  1.0e-55
Match length
                  101
% identity
NCBI Description
                   (AL022141) beta-galactosidase like protein [Arabidopsis
                  thaliana]
                  143177
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-C1
Method
                  BLASTX
NCBI GI
                  g2499298
BLAST score
                  321
E value
                  4.0e-30
Match length
                  65
% identity
                  100
NCBI Description
                  NADH-PLASTOQUINONE OXIDOREDUCTASE CHAIN 6, CHLOROPLAST
                  >gi 1619279 emb CAA67670 (X99278) ndhG [Arabidopsis
                  thaliana]
Seq. No.
                  143178
Seq. ID
                  LIB3168-024-P1-K1-C11
Method
                  BLASTX
NCBI GI
                  g1107501
BLAST score
                  404
E value
                  2.0e-39
                  99
Match length
% identity
                  82
```

Seq. ID

Method

```
(X91954) orf [Arabidopsis thaliana] >gi 3367530 (AC004392)
NCBI Description
                  Match to gb X91954 orf gene product from A. thaliana. ESTs
                  gb Z17604, gb H76594, gb AA597972 and gb AA394824 come from
                  this gene. [Arabidopsis thaliana]
                  143179
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  g3023848
BLAST score
                  604
                  6.0e-63
E value
Match length
                  119
% identity
                  59
                  GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE
NCBI Description
                  PROTEIN (WD-40 REPEAT AUXIN-DEPENDENT PROTEIN ARCA)
                  >gi 2289095 (U77381) WD-40 repeat protein [Arabidopsis
                  thaliana]
Seq. No.
                  143180
Seq. ID
                  LIB3168-024-P1-K1-C3
Method
                  BLASTN
NCBI GI
                  q2924257
BLAST score
                  60
E value
                  5.0e-25
Match length
                  88
% identity
                  92
NCBI Description
                  Tobacco chloroplast genome DNA
Seq. No.
                  143181
Seq. ID
                  LIB3168-024-P1-K1-C4
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  560
E value
                  9.0e-58
Match length
                  131
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143182
Seq. ID
                  LIB3168-024-P1-K1-C5
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  533
                  1.0e-54
E value
Match length
                  136
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana) >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143183
Seq. No.
```

LIB3168-024-P1-K1-C8

BLASTX

BLAST score

540

```
g1628583
NCBI GI
BLAST score
                   437
E value
                   2.0e-43
Match length
                   106
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143184
                   LIB3168-024-P1-K1-C9
Seq. ID
                   BLASTX
Method
NCBI GI
                   q112681
BLAST score
                   560
                   9.0e-58
E value
Match length
                   131
                   83
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143185
Seq. No.
                   LIB3168-024-P1-K1-D1
Seq. ID
Method
                   BLASTX
NCBI GI
                   g117238
BLAST score
                   374
                   6.0e-36
E value
Match length
                   115
                   71
% identity
NCBI Description
                   MAGNESIUM-CHELATASE SUBUNIT CHLI PRECURSOR (PROTEIN
                   CS/CH-42) (MG-PROTOPORPHYRIN IX CHELATASE)
                   >gi_81656_pir__S12785 protein ch-42 precursor, chloroplast
                   - Arabidopsis thaliana >gi_1020100_emb_CAA62754_ (X91411)
                   protoporphyrin-IX Mg-chetalase [Arabidopsis thaliana]
                   >gi_2832653_emb_CAA16728_ (AL021710) protein ch-42
                   precursor, chloroplast [Arabidopsis thaliana]
                   >gi_4490290_emb_CAB38561.1_ (X51799) chloroplast protein
[Arabidopsis thaliana] >gi_228771_prf__1811226A ccsA gene
                   [Euglena gracilis]
Seq. No.
                   143186
                   LIB3168-024-P1-K1-D11
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4103953
                   405
BLAST score
E value
                   0.0e+00
                   405
Match length
                   100
% identity
                  Arabidopsis thaliana A37 (A37) gene, complete cds
NCBI Description
                   143187
Seq. No.
                   LIB3168-024-P1-K1-D12
Seq. ID
Method
                   BLASTX
                   g1628583
NCBI GI
```

E value

2.0e-55

```
Match length
                   135
                   79
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143188
Seq. No.
                   LIB3168-024-P1-K1-D2
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   506
E value
                   2.0e-51
                   136
Match length
                   78
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143189
                   LIB3168-024-P1-K1-D4
Seq. ID
                   BLASTX
Method
NCBI GI
                   g133841
BLAST score
                   403
E value
                   2.0e-39
                   90
Match length
                   91
% identity
                   CHLOROPLAST 30S RIBOSOMAL PROTEIN S18 >gi 71016 pir R3NT18
NCBI Description
                   ribosomal protein S18 - common tobacco chloroplast >gi_11851_emb_CAA77371_ (Z00044) ribosomal protein S18 [Nicotiana tabacum] >gi_225220_prf__1211235BB ribosomal
                   protein S18 [Nicotiana tabacum]
Seq. No.
                   143190
                   LIB3168-024-P1-K1-D5
Seq. ID
Method
                   BLASTX
                   g112737
NCBI GI
BLAST score
                   554
                   5.0e-57
E value
Match length
                   134
% identity
                   81
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                    PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                    (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   143191
Seq. No.
Seq. ID
                   LIB3168-024-P1-K1-D6
Method
                   BLASTX
NCBI GI
                   q1628583
                   601
BLAST score
                   1.0e-62
E value
```

BLAST score

485

```
124
Match length
                  93
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143192
Seq. No.
                  LIB3168-024-P1-K1-D7
Seq. ID
                  BLASTX
Method .
NCBI GI
                  q3142300
BLAST score
                  371
                  1.0e-35
E value
Match length
                  134
% identity
                  55
                  (AC002411) Contains similarity to pre-mRNA processing
NCBI Description
                  protein PRP39 gb L29224 from S. cerevisiae. ESTs gb R64908
                  and gb T88158, gb N38703 and gb AA651043 come from this
                  gene. [Arabidopsis thaliana]
Seq. No.
                  143193
                  LIB3168-024-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4678299
BLAST score
                  646
E value
                  8.0e-68
Match length
                  126
                  100
% identity
                  (AL049655) cysteine proteinase precursor-like protein
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  143194
                  LIB3168-024-P1-K1-E10
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143195
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  g625509
BLAST score
                  612
                  7.0e-64
E value
Match length
                  123
                  25
% identity
NCBI Description ubiquitin precursor - Arabidopsis thaliana (fragment)
                  143196
Seq. No.
                  LIB3168-024-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3150414
```



```
6.0e-49
E value
Match length
                  111
% identity
                  89
                  (AC004165) AtRanBPlb protein [Arabidopsis thaliana]
NCBI Description
                  143197
Seq. No.
                  LIB3168-024-P1-K1-E2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112743
                  580
BLAST score
E value
                  4.0e-60
Match length
                  126
% identity
                  87
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  143198
Seq. No.
                  LIB3168-024-P1-K1-E3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129657
BLAST score
                  437
E value
                  2.0e-43
                  117
Match length
                  79
% identity
                  oleosin isoform - Arabidopsis thaliana
NCBI Description
                  [Arabidopsis thaliana]
                  143199
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-E4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143200
Seq. ID
                  LIB3168-024-P1-K1-E5
Method
                  BLASTX
NCBI GI
                  q4388826
                  200
BLAST score
E value
                  1.0e-15
Match length
                  82
% identity
                  (AC006528) hypothetical protein [Arabidopsis thaliana]
NCBI Description
```

143201

Seq. No.

```
Seq. ID
                  LIB3168-024-P1-K1-E6
Method
                  BLASTX
                  g1628583
NCBI GI
                  420
BLAST score
                  2.0e-41
E value
                  79
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143202.
                  LIB3168-024-P1-K1-E7
Seq. ID
                  BLASTN
Method
                  g2832639
NCBI GI
                  191
BLAST score
E value
                  1.0e-103
                  338
Match length
                  98
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F28J12
NCBI Description
                  (ESSAII project)
                  143203
Seq. No.
                  LIB3168-024-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  411
E value
                  5.0e-44
                  100
Match length
                  90
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143204
Seq. ID
                  LIB3168-024-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  q3123188
BLAST score
                  661
E value
                  1.0e-69
Match length
                  129
% identity
                  CATALASE 3 >gi_2347178 (U43147) catalase 3 [Arabidopsis
NCBI Description
                  thaliana] >gi 2511726 (AF021937) catalase 3 [Arabidopsis
                  thaliana]
                  143205
Seq. No.
                                                                  والمالة المراجعة
                  LIB3168-024-P1-K1-F10
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
                  564
BLAST score
                  3.0e-58
E value
                  132
Match length
```

```
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143206
Seq. ID
                  LIB3168-024-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  691
E value
                  4.0e-73
Match length
                  128
% identity
                  100
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201 emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143207
Seq. ID
                  LIB3168-024-P1-K1-F12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  569
E value
                  8.0e-59
Match length
                  120
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143208
Seq. ID
                  LIB3168-024-P1-K1-F2
Method
                  BLASTN
NCBI GI
                  q4220643
BLAST score
                  239
E value
                  1.0e-132
Match length
                  300
% identity
                  95
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MWD22, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143209
Seq. ID
                  LIB3168-024-P1-K1-F3
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
143210
Seq. No.
Seq. ID
                LIB3168-024-P1-K1-F4
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   625
                   2.0e-65
E value
Match length
                   120
% identity
                    100
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    143211
Seq. ID
                   LIB3168-024-P1-K1-F6
Method
                   BLASTX
NCBI GI
                    q1628583
BLAST score
                    442
                    3.0e-63
E value
Match length
                    137
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    143212
Seq. No.
Seq. ID
                   LIB3168-024-P1-K1-F8
Method
                    BLASTX
NCBI GI
                    q112741
                    682
BLAST score
E value
                    5.0e-72
                    127
Match length
                    99
% identity
                    2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                    PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                    (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                    >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                    precursor [Arabidopsis thaliana]
Seq. No.
                    143213
                    LIB3168-024-P1-K1-G1
Seq. ID
Method
                    BLASTX
NCBI GI
                    g112739
BLAST score
                    425
E value
                    6.0e-42
Match length
                    121
% identity
                    71
                    2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                    PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                    (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                    >gi 4490711 emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                    precursor [Arabidopsis thaliana]
```

```
143214
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-G10
Method
                  BLASTX
NCBI GI
                  g166570
BLAST score
                  253
E value
                  9.0e-22
Match length
                  107
% identity
                  50
                  (L04173) glycine rich protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143215
                  LIB3168-024-P1-K1-G2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  592
E value
                  2.0e-70
Match length
                  134
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143216
Seq. No.
                  LIB3168-024-P1-K1-G3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  545
                  5.0e-56
E value
Match length
                  129
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir_ S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143217
                  LIB3168-024-P1-K1-G4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g16472
BLAST score
                  399
E value
                  0.0e + 00
Match length
                  407
% identity
NCBI Description
                  A.thaliana rRNA repeat unit, most frequent IGR type
Seq. No.
                  143218
                  LIB3168-024-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  566
                  2.0e-58
E value
Match length
                  136
% identity
                  81
NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
```

NCBI Description

```
PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
>gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
precursor [Arabidopsis thaliana]
```

```
143219
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  q3096920
BLAST score
                  644
E value
                  1.0e-67
Match length
                  126
% identity
NCBI Description
                   (AL023094) putative ketoacyl-CoA synthase [Arabidopsis
                  thaliana]
                  143220
Seq. No.
                  LIB3168-024-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  512
E value
                  4.0e-52
Match length
                  132
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143221
                  LIB3168-024-P1-K1-G8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4199934
BLAST score
                  277
E value
                  1.0e-154
Match length
                  319
% identity
NCBI Description
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
                  complete sequence [Arabidopsis thaliana]
                  143222
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-H1
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  537
E value
                  5.0e-55
Match length
                  131
                  79
% identity
```

2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

precursor [Arabidopsis thaliana]

Seq. No.

143228

```
Seq. No.
                  143223
Seq. ID
                  LIB3168-024-P1-K1-H10
Method
                  BLASTX
NCBI GI
                  g2832625
BLAST score
                  226
                  1.0e-18
E value
Match length
                  66
% identity
                  62
                   (AL021711) putative protein [Arabidopsis thaliana]
NCBI Description
                  143224
Seq. No.
                  LIB3168-024-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  504
E value
                  3.0e-51
Match length
                  111
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143225
Seq. ID
                  LIB3168-024-P1-K1-H12
Method
                  BLASTN
NCBI GI
                  g4199934
BLAST score
                  357
E value
                  0.0e + 00
Match length
                  409
% identity
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  143226
                  LIB3168-024-P1-K1-H2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1169476
BLAST score
                  585
                  1.0e-60
E value
Match length
                  119
                  95
% identity
NCBI Description
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
                  ADHESION PROTEIN 1) (PVN1) >gi_439577 (U04632)
                  vitronectin-like adhesion protein [Nicotiana tabacum]
                  143227
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  q4008006
BLAST score
                  282
E value
                  4.0e-25
Match length
                  128
% identity
NCBI Description
                  (AF084034) receptor-like protein kinase [Arabidopsis
                  thaliana]
```

```
Seq. ID
                  LIB3168-024-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  a1628583
BLAST score
                  44
E value
                  4.0e-60
Match length
                  120
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143229
                  LIB3168-024-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  a1628583
                  625
BLAST score
                  2.0e-65
E value
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143230
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-H6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  682
                  4.0e-72
E value
Match length
                  132
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143231
Seq. No.
Seq. ID
                  LIB3168-024-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  q3859607
BLAST score
                  496
E value
                  3.0e-50
Match length
                  116
% identity
                  (AF104919) contains similarity to cysteine proteases (Pfam:
NCBI Description
                  PF00112, E=.21, N=1) [Arabidopsis thaliana]
Seq. No.
                  143232
Seq. ID
                  LIB3168-024-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  252
                  1.0e-21
E value
Match length
                  71
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
143233
Seq. No.
                  LIB3168-024-P1-K1-H9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
                  718
BLAST score
                  3.0e-76
E value
                  135
Match length
% identity
                  99
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_(X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143234
Seq. No.
                  LIB3168-025-P1-K1-A1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  481
E value
                  2.0e-48
                  90
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143235
Seq. No.
                  LIB3168-025-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  686
E value
                  1.0e-72
Match length
                  130
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S_
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143236
Seq. No.
                  LIB3168-025-P1-K1-A12
Seq. ID
Method
                  BLASTX
                  g4587529
NCBI GI
BLAST score
                  46
                  7.0e-33
E value
                  97
Match length
                  77
% identity
NCBI Description
                   (AC007060) Strong similarity to F19I3.2 gi 3033375 putative
                  berberine bridge enzyme from Arabidopsis thaliana BAC
                  gb AC004238. EST gb_H76902 comes from this gene
                  143237
Seq. No.
Seq. ID
                  LIB3168-025-P1-K1-A2
Method
                  BLASTX
                  q1628583
NCBI GI
                  541
BLAST score
                  2.0e-55
E value
```

Seq. ID

```
103
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Déscription
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143238
Seq. No.
                  LIB3168-025-P1-K1-A5
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  350
                  1.0e-33
E value
                  70
Match length
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143239
Seq. No.
                  LIB3168-025-P1-K1-A6
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  502
                  4.0e-51
E value
Match length
                  113
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143240
Seq. No.
                  LIB3168-025-P1-K1-A7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  575
                  2.0e-59
E value
                  133
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsīs thaliana
                  >qi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143241
                  LIB3168-025-P1-K1-A8
Seq. ID
                  BLASTX
Method
                  g2996096
NCBI GI
                  527
BLAST score
                  5.0e-54
E value
                  101
Match length
% identity
                  (AF030517) translation elongation factor-1 alpha; EF-1
NCBI Description
                  alpha [Oryza sativa]
Seq. No.
                  143242
```

LIB3168-025-P1-K1-A9

```
Method
                  BLASTX
NCBI GI
                  q2959781
BLAST score
                  683
E value
                  3.0e-72
Match length
                  133
                  96
% identity
NCBI Description
                   (AJ223508) Zwille protein [Arabidopsis thaliana]
Seq. No.
                  143243
                  LIB3168-025-P1-K1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3915866
BLAST score
                  187
                   6.0e-14
E value
Match length
                  57
                  77
% identity
                  GLUTAMINYL-TRNA SYNTHETASE (GLUTAMINE--TRNA LIGASE) (GLNRS)
NCBI Description
                  >gi_2995455_emb_CAA62901_ (X91787) tRNA-glutamine
                  synthetase [Lupinus luteus]
Seq. No.
                  143244
                  LIB3168-025-P1-K1-B10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
                  652
BLAST score
E value
                  1.0e-68
                  132
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143245
Seq. ID
                  LIB3168-025-P1-K1-B11
Method
                  BLASTN
NCBI GI
                  q16231
BLAST score
                  191
                  1.0e-103
E value
Match length
                  211
% identity
                  Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                  >gi_166675_gb_M37247_ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
Seq. No.
                  143246
Seq. ID
                  LIB3168-025-P1-K1-B12
Method
                  BLASTN
NCBI GI
                  q3540210
BLAST score
                  254
                  1.0e-141
E value
Match length
                  372
% identity
                  Arabidopsis thaliana chromosome I BAC F5A8 genomic
NCBI Description
```

sequence, complete sequence [Arabidopsis thaliana]

BLAST score

398

```
143247
   Seq. No.
                      LIB3168-025-P1-K1-B3
   Seq. ID
   Method
                      BLASTX
   NCBI GI
                      g112741
   BLAST score
                      680
   E value
                      8.0e-72
   Match length
                      126
                      100
   % identity
NCBI Description
                      2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                      PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                      Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                      3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                      (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                      >gi 4490712 emb CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                      precursor [Arabidopsis thaliana]
   Seq. No.
                      143248
                      LIB3168-025-P1-K1-B4
   Seq. ID
   Method
                      BLASTX
   NCBI GI
                      g1628583
   BLAST score
                      571
                      8.0e-63
   E value
                      127
   Match length
   % identity
                      (U66916) 12S cruciferin seed storage protein [Arabidopsis
   NCBI Description
                      thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                      cruciferin seed storage protein [Arabidopsis thaliana]
   Seq. No.
                      143249
   Seq. ID
                      LIB3168-025-P1-K1-B5
   Method
                      BLASTX
   NCBI GI
                      g112681
   BLAST score
                      517
                      1.0e-52
   E value
                      133
   Match length
                      80
   % identity
   NCBI Description
                      12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                      cruciferin precursor (CRA1) - Arabidopsis thaliana
                      >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                      thaliana] >gi 808936 emb_CAA32493_ (X14312) 12S seed
                      storage protein [Arabidopsis thaliana]
   Seq. No.
                      143250
   Seq. ID
                      LIB3168-025-P1-K1-B6
   Method
                      BLASTX
   NCBI GI
                      g4006897
   BLAST score
                      567
   E value
                      1.0e-58
   Match length
                      119
   % identity
                      (Z99708) globulin-like protein [Arabidopsis thaliana]
   NCBI Description
                      143251
   Seq. No.
                      LIB3168-025-P1-K1-B7
   Seq. ID
   Method
                      BLASTX
   NCBI GI
                      g1628583
```

.

Method

BLASTX

```
7.0e-39
E value
                  112
Match length
                  72
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143252
Seq. No.
                  LIB3168-025-P1-K1-B8
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  196
E value
                  4.0e-15
                  70
Match length
                  94
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143253
Seq. No.
                  LIB3168-025-P1-K1-B9
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  444
BLAST score
                  3.0e-44
E value
Match length
                  94
                  91
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143254
Seq. No.
                  LIB3168-025-P1-K1-C1
Seq. ID
                  BLASTX
Method
                  g1143511
NCBI GI
                  429
BLAST score
                  2.0e-42
E value
Match length
                  82
% identity
                  96
                  (Z47076) Ser/Thr protein phosphatase homologous to PPX
NCBI Description
                  [Malus domestica] >gi_1586034_prf__2202340A Ser/Thr protein
                  phosphatase [Malus domestica]
                  143255
Seq. No.
                  LIB3168-025-P1-K1-C11
Seq. ID
                  BLASTN
Method
                  g4589409
NCBI GI
BLAST score
                  173
E value
                  2.0e-92
Match length
                  398
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  F17P19, complete sequence
                  143256
Seq. No.
                  LIB3168-025-P1-K1-C2
Seq. ID
```

Method

```
NCBI GI
                  q112739
                  429
BLAST score
                  2.0e-42
E value
                  122
Match length
                  71
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143257
                  LIB3168-025-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2914710
                  709
BLAST score
                  3.0e-75
E value
                  135
Match length
                  100
% identity \
                  (AC003974) putative beta-D-galactosidase [Arabidopsis
NCBI Description
                  thaliana]
                  143258
Seq. No.
                  LIB3168-025-P1-K1-C4
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
                  334
BLAST score
                  2.0e-31
E value
                  95
Match length
                  73
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143259
Seq. No.
                  LIB3168-025-P1-K1-C5
Seq. ID
                  BLASTX
Method
                  g112737
NCBI GI
BLAST score
                  605
E value
                  5.0e-63
                  129
Match length
                  89
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  143260
Seq. No.
                  LIB3168-025-P1-K1-C6
Seq. ID
```

BLASTX

```
NCBI GI
                   q1865677
BLAST score
                   683
E value
                   3.0e-72
Match length
                   133
                   100
% identity
                   (Y08568) trehalose-6-phosphate synthase [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   143261
                   LIB3168-025-P1-K1-C7
Seq. ID
                   BLASTX
Method -
NCBI GI
                   g1628583
BLAST score
                   581
E value
                   3.0e-60
                   110
Match length
                   100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143262
Seq. ID
                   LIB3168-025-P1-K1-C8
Method
                   BLASTX
NCBI GI
                   q633890
BLAST score
                   290
E value
                   4.0e-26
Match length
                   98
% identity
NCBI Description
                   (S72926) glucose and ribitol dehydrogenase homolog [Hordeum
                   vulgare]
Seq. No.
                   143263
Seq. ID
                   LIB3168-025-P1-K1-C9
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   680
E value
                   8.0e-72
Match length
                   126
                   100
% identity
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143264
Seq. ID
                   LIB3168-025-P1-K1-D11
Method
                   BLASTX
NCBI GI
                   q1526424
BLAST score
                   170
E value
                   5.0e-12
Match length
                   59
% identity
```

1.

NCBI Description (D64140) LEA protein in group 3 [Arabidopsis thaliana]

BLAST score

155

```
143265
Seq. No.
                  LIB3168-025-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
                  573
BLAST score
                  3.0e-59
E value
                  117
Match length
                  93
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143266
                  LIB3168-025-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  668
E value
                  2.0e-70
Match length
                  128
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143267
                  LIB3168-025-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  553
E value
                  6.0e-57
Match length
                  118
% identity
                  88
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143268
Seq. ID
                  LIB3168-025-P1-K1-D5
Method
                  BLASTX
                  q1628583
NCBI GI
                  590
BLAST score
                  3.0e-61
E value
Match length
                  129
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143269
Seq. ID
                  LIB3168-025-P1-K1-D6
Method
                  BLASTX
NCBI GI
                  q3322615
```

```
3.0e-10
E value
Match length
                   130
% identity
                   32
                   (AE001213) folylpolyglutamate synthetase (folC) [Treponema
NCBI Description
                   pallidum]
                   143270
Seq. No.
Seq. ID
                   LIB3168-025-P1-K1-D7
Method
                   BLASTX
NCBI GI
                   g112682
                   389
BLAST score
                   6.0e-38
E value
Match length
                   88
% identity
                   83
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143271
Seq. No.
Seq. ID
                   LIB3168-025-P1-K1-D8
Method
                   BLASTX
NCBI GI
                   g112743
BLAST score
                   322
E value
                   4.0e-30
                   77
Match length
                   79
% identity
                   2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68856_pir_NWMU4 2S albumin 4 precursor -
                   Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit 4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                   (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                   >qi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143272
                   LIB3168-025-P1-K1-D9
Seq: ID
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   560
                   9.0e-58
E value
Match length
                   131
% identity
                   83
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143273
Seq. No.
Seq. ID
                   LIB3168-025-P1-K1-E1
Method
                   BLASTN
NCBI GI
                   g3449331
BLAST score
                   40
                   4.0e-13
E value
```

429

Match length

NCBI GI

g112682

```
% identity
   NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                     MNC17, complete sequence [Arabidopsis thaliana]
   Seq. No.
                     143274
                     LIB3168-025-P1-K1-E10
   Seq. ID
   Method
                     BLASTX
   NCBI GI
                     q1628583
   BLAST score
                     388
   E value
                     1.0e-37
   Match length
                     77
   % identity
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
   NCBI Description
                     thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
                     143275
   Seq. No.
                     LIB3168-025-P1-K1-E12
   Seq. ID
                     BLASTX
   Method
   NCBI GI
                     g112681
   BLAST score
                     534
                     1.0e-54
   E value
                     127
   Match length
                     82
   % identity
   NCBI Description
                     12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                     cruciferin precursor (CRA1) - Arabidopsis thaliana
                     >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                     thaliana] >gi 808936 emb CAA32493_ (X14312) 12S seed
                     storage protein [Arabidopsis thaliana]
                     143276
   Seq. No.
                     LIB3168-025-P1-K1-E2
   Seq. ID
   Method
                     BLASTX
   NCBI GI
                     g1628583
   BLAST score
                     644
                                                       .....
   E value
                     1.0e-67
   Match length
                     129
   % identity
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
   NCBI Description
                     thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
   Seq. No.
                     143277
                     LIB3168-025-P1-K1-E3
   Seq. ID
   Method
                     BLASTX
                     g4204298
   NCBI GI
   BLAST score
                     533
   E value
                     1.0e-54
   Match length
                     120
   % identity
                      (AC003027) lcl_prt_seq No definition line found
NCBI Description
                     [Arabidopsis thaliana]
   Seq. No.
                     143278
                     LIB3168-025-P1-K1-E4
   Seq. ID
   Method
                     BLASTX
```

```
BLAST score
                  501
E value
                  5.0e-51
Match length
                  106
% identity
                  89
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143279
                  LIB3168-025-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112740
BLAST score
                  213
                  4.0e-17
E value
                  108
Match length
% identity
                  NAPIN 2 PRECURSOR (1.7S SEED STORAGE PROTEIN)
NCBI Description
                  >gi_81691_pir_A25997 napin precursor (napA) - rape
                  >gi 167153 (J02586) prepronapin [Brassica napus] >gi_167155
                  (J02798) napin [Brassica napus]
                  143280
Seq. No.
                  LIB3168-025-P1-K1-E6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
                  302
BLAST score
                  1.0e-27
E value
                  71
Match length
% identity
                  80
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143281
Seq. No.
Seq. ID
                  LIB3168-025-P1-K1-E7
Method
                  BLASTN
NCBI GI
                  q16473
BLAST score
                  257
E value
                  1.0e-142
Match length
                  300
                  45
% identity
NCBI Description
                  Arabidopsis thaliana 25S-18S ribosomal DNA spacer
Seq. No.
                  143282
Seq. ID
                  LIB3168-025-P1-K1-E8
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  479
                                                                     .
E value
                  3.0e-48
Match length
                  103
% identity
                  88
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
```

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_(AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana]

```
143283
Seq. No.
                  LIB3168-025-P1-K1-E9
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
BLAST score
                  464
                  2.0e-46
E value
                  116
Match length
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143284
Seq. No.
                  LIB3168-025-P1-K1-F1
Seq. ID
Method
                  BLASTX
                  g1800307
NCBI GI
                  170
BLAST score
                  5.0e-12
E value
Match length
                  108
% identity
                  (U83883) p105 coactivator [Rattus norvegicus]
NCBI Description
                  143285
Seq. No.
                  LIB3168-025-P1-K1-F12
Seq. ID
                  BLASTN
Method
                  g3282170
NCBI GI
                  146
BLAST score
                  2.0e-76
E value
                  388
Match length
% identity
                  Arabidopsis thaliana chromosome 1 BAC F8K4 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  143286
Seq. No.
                  LIB3168-025-P1-K1-F2
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
```

BLAST score 493
E value 4.0e-50
Match length 101
% identity 95
NCRI Description (U66916) 125 cruciferin seed storage page 1

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

 Seq. No.
 143287

 Seq. ID
 LIB3168-025-P1-K1-F3

 Method
 BLASTX

Method BLASTX NCBI GI g1628583



BLAST score 511 E value 5.0e-52 Match length 133 % identity 77

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 143288

Seq. ID LIB3168-025-P1-K1-F5

Method BLASTX
NCBI GI g1628583
BLAST score 461
E value 3.0e-46
Match length 120
% identity 79

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 143289

Seq. ID LIB3168-025-P1-K1-F6

Method BLASTX
NCBI GI g1628583
BLAST score 669
E value 1.0e-70
Match length 129
% identity 99

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 143290

Seq. ID LIB3168-025-P1-K1-F7

Method BLASTX
NCBI GI g112737
BLAST score 536
E value 6.0e-55
Match length 130
% identity 80

NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204 emb\_CAA80870\_

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1

precursor [Arabidopsis thaliana]

Seq. No. 143291

Seq. ID LIB3168-025-P1-K1-F9

Method BLASTX
NCBI GI 94204299
BLAST score 399
E value 5.0e-39
Match length 81
% identity 98

NCBI Description (AC003027) lcl prt seq No definition line found

## [Arabidopsis thaliana]

```
143292
Seq. No.
Seq. ID
                   LIB3168-025-P1-K1-G1
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   625
E value
                   2.0e-65
Match length
                   120
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143293
                   LIB3168-025-P1-K1-G10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   509
E value
                   8.0e-52
Match length
                   131
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143294
                   LIB3168-025-P1-K1-G12
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3510347
BLAST score
                   397
E value
                   0.0e + 00
Match length
                   401
                   100
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MSJ11, complete sequence [Arabidopsis thaliana]
Seq. No.
                   143295
Seq. ID
                  LIB3168-025-P1-K1-G2
Method
                  BLASTX
                   g4204299
NCBI GI
BLAST score
                   702
E value
                   2.0e-74
Match length
                  133
                   100
% identity
NCBI Description
                   (AC003027) lcl_prt_seq No definition line found
                   [Arabidopsis thaliana]
                  143296
Seq. No.
Seq. ID
                  LIB3168-025-P1-K1-G3
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  58
E value
                  7.0e-42
Match length
                  125
% identity
                  74
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

```
cruciferin seed storage protein [Arabidopsis thaliana]
                  143297
Seq. No.
                  LIB3168-025-P1-K1-G4
Seq. ID
                  BLASTN
Method
                  q4097693
NCBI GI
BLAST score
                  87
E value
                  3.0e-41
                  155
Match length
% identity
                  90
NCBI Description
                  Arabidopsis thaliana prohibitin 1 (Atphb1) gene, complete
                  143298
Seq. No.
Seq. ID
                  LIB3168-025-P1-K1-G5
Method
                  BLASTN
NCBI GI
                  g3985949
BLAST score
                  84
E value
                  2.0e-39
                  236
Match length
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MOB24, complete sequence [Arabidopsis thaliana]
                  143299
Seq. No.
                  LIB3168-025-P1-K1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  618
E value
                  1.0e-64
Match length
                  120
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143300
                  LIB3168-025-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  597
                   4.0e-62
E value
                  114
Match length
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

 Seq. No.
 143301

 Seq. ID
 LIB3168-025-P1-K1-G8

 Method
 BLASTX

 NCBI GI
 g112681

 BLAST score
 567

 E value
 1.0e-58

 Match length
 131

84

100

% identity

% identity

NCBI Description

(U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No.

Seq. ID Method

```
12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143302
Seq. No.
                  LIB3168-025-P1-K1-G9
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  530
E value
                  3.0e-54
Match length
                  127
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143303
                  LIB3168-025-P1-K1-H10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4199934
BLAST score
                  277
                  1.0e-154
E value
Match length
                  366
% identity
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  143304
Seq. ID
                  LIB3168-025-P1-K1-H11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143305
                  LIB3168-025-P1-K1-H12
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3449331
                  295
BLAST score
E value
                  1.0e-165
Match length
                  342
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MNC17, complete sequence [Arabidopsis thaliana]
                  143306
```

LIB3168-025-P1-K1-H2

BLASTX

E value

0.0e + 00

```
q1628583
NCBI GI
BLAST score
                  356
E value
                  8.0e-34
Match length
                  66
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143307
Seq. No.
Seq. ID
                  LIB3168-025-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  a1628583
BLAST score
                  179
E value
                  4.0e-13
                  70
Match length
% identity
                  99
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143308
Seq. No.
Seq. ID
                  LIB3168-025-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  680
E value
                  9.0e-72
Match length
                  126
% identity
                  100
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143309
                  LIB3168-025-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  544
                  7.0e-56
E value
Match length
                  116
% identity
                  88
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143310 .
Seq. ID
                  LIB3168-025-P1-K1-H6
Method
                  BLASTN
NCBI GI
                  q3236234
BLAST score
                  359
```

v.2 \* \*\*

E value

```
375
Match length
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC F13M22 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  143311
Seq. No.
                  LIB3168-025-P1-K1-H8
Seq. ID
Method-
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  655
E value
                  6.0e-69
Match length
                  125
                  98
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143312
                  LIB3168-025-P1-K1-H9
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  544
E value
                  7.0e-56
                  116
Match length
                  88
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143313
Seq. ID
                  LIB3168-026-P1-K1-A10
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  526
E value
                  9.0e-54
Match length
                  129
% identity
                  79
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir_ NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143314
Seq. ID
                  LIB3168-026-P1-K1-A11
Method
                  BLASTX
NCBI GI
                  g112741
                  680
BLAST score
```

8.0e-72

```
Match length
                   126
                   100
% identity -
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi 395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143315
Seq. ID
                   LIB3168-026-P1-K1-A12
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   611
                   9.0e-64
E value
                   117
Match length
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143316
Seq. No.
                   LIB3168-026-P1-K1-A2
Seq. ID
                   BLASTX
Method
                   g112681
NCBI GI
BLAST score
                   216
                   1.0e-17
E value
                   72
Match length
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143317
Seq. ID .
                   LIB3168-026-P1-K1-A3
Method
                   BLASTX
NCBI GI
                   g2129659
BLAST score
                   485
                   6.0e-49
E value
Match length
                   127
 % identity
                   oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                   (L40954) oleosin [Arabidopsis thaliana]
                   143318
Seq. No.
                   LIB3168-026-P1-K1-A4
Seq. ID
Method
                   BLASTX
                   g1628583
NCBI GI
                   371
BLAST score
                                                                   ...
E value
                   6.0e-36
                   75
Match length
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

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thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

Seq. No.

143323

## cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  143319
Seq. ID
                  LIB3168-026-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  513
E value
                  3.0e-52
Match length
                  127
% identity
                  79
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  143320
Seq. No.
Seq. ID
                  LIB3168-026-P1-K1-A6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  390
E value
                  4.0e-41
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143321
                  LIB3168-026-P1-K1-A7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  326
E value
                  2.0e-30
Match length
                  101
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143322
Seq. ID
                  LIB3168-026-P1-K1-A8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  375
                  2.0e-42
E value
Match length
                  102
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

NCBI GI

g112681

```
Seq. ID
                  LIB3168-026-P1-K1-A9
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  365
E value
                  5.0e-35
Match length
                  108
% identity
                  68
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143324
                  LIB3168-026-P1-K1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  564
                  3.0e-58
E value
Match length
                  132
                  81
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsīs thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143325
Seq. ID
                  LIB3168-026-P1-K1-B10
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  495
E value
                  4.0e-50
Match length
                  107
                  88
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143326
Seq. ID
                  LIB3168-026-P1-K1-B11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143327
Seq. ID
                  LIB3168-026-P1-K1-B12
Method
                  BLASTX
```

Seq. ID

489 BLAST score 2.0e-49 E value 134 Match length 78 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 143328 LIB3168-026-P1-K1-B2 Seq. ID BLASTX Method g21112 NCBI GI 225 BLAST score 2.0e-18 E value Match length 48 % identity 85 (X59805) cruciferin [Raphanus sativus] NCBI Description 143329 Seq. No. LIB3168-026-P1-K1-B3 Seq. ID Method BLASTX g112681 NCBI GI BLAST score 457 9.0e-46 E value 118 Match length % identity 76 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana] 143330 Seq. No. LIB3168-026-P1-K1-B4 Seq. ID BLASTN Method g2244950 NCBI GI BLAST score 244 1.0e-135 E value Match length 345 % identity Arabidopsis thaliana DNA chromosome 4, ESSA I contig NCBI Description fragment No 143331 Seq. No. LIB3168-026-P1-K1-B5 Seq. ID BLASTX Method g2058280 NCBI GI 559 BLAST score 1.0e-57 E value Match length 120 % identity 88 (X97381) atran3 [Arabidopsis thaliana] NCBI Description Seq. No. 143332

LIB3168-026-P1-K1-B6

NCBI GI

BLAST score

```
BLASTX
Method
 NCBI GI
                   g112739
                   461
BLAST score
                   4.0e-46
E'value
Match length
                   117 .
 % identity
                   77
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                   2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
 Seq. No.
                   143333
 Seq. ID
                   LIB3168-026-P1-K1-B7
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   570
 E value
                   6.0e-59
                   133
Match length
 % identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143334
Seq. No.
 Seq. ID
                   LIB3168-026-P1-K1-B9
Method
                   BLASTX
NCBI GI
                   q1628583
 BLAST score
                   639
                   5.0e-67
E value
Match length
                   129
 % identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143335
Seq. No.
Seq. ID
                   LIB3168-026-P1-K1-C1
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   620
E value
                   8.0e-65
Match length
                   120
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143336
                   LIB3168-026-P1-K1-C10
Seq. ID
Method
                   BLASTX
```

g1628583

557

```
E value
                   2.0e-57
Match length
                  107
                   97
% identity -
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
Seq. ID
                   LIB3168-026-P1-K1-C11
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   538
E value
                   3.0e-55
Match length
                   127
% identity
                   83
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143338
Seq. No.
Seq. ID
                  LIB3168-026-P1-K1-C12
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   631
E value
                   4.0e-66
Match length
                   125
% identity
                   97
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143339
Seq. ID
                   LIB3168-026-P1-K1-C2
Method
                   BLASTX
NCBI GI-
                   g112737
BLAST score
                   480
E value
                   2.0e-48
                   108
Match length
% identity
                   84
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                   143340
Seq. ID
                  LIB3168-026-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  q4468804
BLAST score
                  226
E value
                  7.0e-19
Match length
                  78
% identity
                   49
```

Seq. No.

143345

```
(AL035601) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                 143341
                                . . . .
Seq. ID
                  LIB3168-026-P1-K1-C5
                  BLASTX
Method
NCBI GI
                  q112681
                  709
BLAST score
                  3.0e-75
E value
Match length
                  134
                  99
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143342
Seq. No.
                  LIB3168-026-P1-K1-C6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  638
                  6.0e-67
E value
Match length
                  125
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143343
Seq. No.
                  LIB3168-026-P1-K1-C7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  205
                  4.0e-16
E value
Match length
                  100
% identity
                  46
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143344
Seq. ID
                  LIB3168-026-P1-K1-C9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  597
E value
                  3.0e-62
Match length
                  117
% identity
                  98
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

```
LIB3168-026-P1-K1-D1
Seq. ID
Method :
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  408
                   6.0e-40
E value
Match length
                  82
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143346
                  LIB3168-026-P1-K1-D10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2317913
BLAST score
                  539
                  2.0e-55
E value
                  106
Match length
                   99
% identity
NCBI Description
                   (U89959) cathepsin B-like cysteine proteinase [Arabidopsis
                  thaliana]
                  143347
Seq. No.
                  LIB3168-026-P1-K1-D11
Seq. ID
Method
                  BLASTX
                  g3273751
NCBI GI
BLAST score
                   441
                  8.0e-44
E value
Match length
                  124
% identity
NCBI Description
                   (AF061518) manganese superoxide dismutase [Arabidopsis
                  thaliana]
                  143348
Seq. No.
Seq. ID
                  LIB3168-026-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  g1628583
                  366
BLAST score
                  5.0e-35
E value
                  99
Match length
                  75
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143349
Seq. No.
                  LIB3168-026-P1-K1-D2
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  654
                  8.0e-69
E value
Match length
                  127
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

## cruciferin seed storage protein [Arabidopsis thaliana]

```
143350
                  LIB3168-026-P1-K1-D3
Seq. ID
                  BLASTN
Method
                  q4510392
NCBI GI
                  201
BLAST score
                  1.0e-109
E value
                  217
Match length
                  98
% identity
                  Arabidopsis thaliana chromosome II BAC T17D12 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  143351
Seq. ID
                  LIB3168-026-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  435
E value
                  2.0e-43
Match length
                  92
                  92
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143352
Seq. No.
                  LIB3168-026-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  556
                  3.0e-57
E value
                  125
Match length
% identity
                  86
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855 pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143353
Seq. No.
                  LIB3168-026-P1-K1-D6
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112739
                  420
BLAST score
                  2.0e-41
E value
                  122
Match length
                  70
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
```

precursor [Arabidopsis thaliana]

```
143354
Seq. No.
                  LIB3168-026-P1-K1-D7
Seq. ID
Method
                  BLASTX ***
                  g112741
NCBI GI
                  655
BLAST score
                  7.0e-69
E value
                  124
Match length
                  98
% identity
NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143355
Seq. No.
                  LIB3168-026-P1-K1-D8
BLASTX
Seq. ID
                  BLASTX
Method
                  q112682
NCBI GI
                  615
BLAST score
                  3.0e-64
E value
                  133
Match length
                  89
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143356
                  LIB3168-026-P1-K1-D9
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
                  558
BLAST score
                  2.0e-57
E value
                  131
Match length
                  83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143357
Seq. No.
                  LIB3168-026-P1-K1-E1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  553
                  5.0e-57
E value
Match length
                  115
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

143358

Seq. No.

```
LIB3168-026-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  a1628583
BLAST score
                  333
E value
                   9.0e-32
                   71
Match length
                   92
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143359
Seq. ID
                  LIB3168-026-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  g112681
                   550
BLAST score
E value
                  1.0e-56
Match length
                  130
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143360
Seq. ID
                  LIB3168-026-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  q2829898
BLAST score
                   373
E value
                  8.0e-36
Match length
                  93
                   76
% identity
                   (AC002311) Hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143361
Seq. ID
                  LIB3168-026-P1-K1-E2
Method
                  BLASTX
NCBI GI
                  a112681
BLAST score
                  589
E value
                   4.0e-61
Match length
                  121
% identity
                  93
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143362
Seq. ID
                  LIB3168-026-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  522
E value
                  3.0e-53
Match length
                  100
% identity
                  98
```

BLAST score

E value

72

7.0e-61

```
NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis
                 cruciferin seed storage protein Arabidopsis thaliana]
Seq. No.
                  143363
                  LIB3168-026-P1-K1-E4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  499
                  1.0e-50
E value
Match length
                  132
                  77
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143364
Seq. No.
Seq. ID
                  LIB3168-026-P1-K1-E5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  663
                  7.0e-70
E value
                 127
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143365
                  LIB3168-026-P1-K1-E6
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4589437
BLAST score
                  383
E value
                  0.0e + 00
Match length
                  395
% identity
                 Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MPN9, complete sequence
Seq. No.
                  143366
Seq. ID
                  LIB3168-026-P1-K1-E7
Method
                  BLASTX
NCBI GI
                  g3242328
BLAST score
                  461
E value
                  4.0e-46
Match length
                  114
% identity
NCBI Description
                  (X98083) cinnamoyl-CoA reductase [Zea mays]
                  143367
Seq. No.
                 LIB3168-026-P1-K1-E9
Seq. ID
Method
                 BLASTX
NCBI GI
                  g1628583
```

NCBI GI

```
123
Match length
                  98
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143368
Seq. ID
                  LIB3168-026-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  519
                  5.0e-53
E value
Match length
                  120
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143369
Seq. ID
                  LIB3168-026-P1-K1-F10
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  610
E value
                  1.0e-63
Match length
                  124
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143370
                  LIB3168-026-P1-K1-F11
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4544365
BLAST score
                  329
E value
                  0.0e + 00
Match length
                  395
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F26H6 genomic
                  sequence, complete sequence
Seq. No.
                  143371
Seq. ID
                  LIB3168-026-P1-K1-F12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  692
E value
                  3.0e-73
                  132
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143372
Seq. ID
                  LIB3168-026-P1-K1-F2
                  BLASTX
Method
```

q2129657

```
BLAST score
                   446
E value
                   2.0e-44
Match length
                 5∈120.
% identity
                   78
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
                   143373
Seq. No.
                   LIB3168-026-P1-K1-F3
Seq. ID
Method
                   BLASTN
NCBI GI
                   q2244788
BLAST score
                   275
E value
                   1.0e-153
Match length
                   318
                   96
% identity
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                   fragment No
                   143374
Seq. No.
                   LIB3168-026-P1-K1-F6
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112743
BLAST score
                   513
E value
                   3.0e-52
Match length
                   119
                   83
% identity
                   2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                   Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                   4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                   (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                   >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143375
Seq. ID
                   LIB3168-026-P1-K1-F7
Method
                   BLASTN
NCBI GI
                   q3033373
BLAST score
                   280
E value
                   1.0e-156
                   402
Match length
% identity
                   98
                   Arabidopsis thaliana chromosome II BAC F19I3 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   143376
                   LIB3168-026-P1-K1-F8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   493
E value
                   4.0e-50
Match length
                   102
% identity
                   93
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
```

## cruciferin seed storage protein [Arabidopsis thaliana]

```
143377
Seq. No.
                   LIB3168-026-P1-K1-F9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1169476
BLAST score
                   568
E value
                   1.0e-58
Match length
                   112
                   97
% identity
                   ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE ADHESION PROTEIN 1) (PVN1) >gi_439577 (U04632)
NCBI Description
                   vitronectin-like adhesion protein [Nicotiana tabacum]
Seq. No.
                   143378
                   LIB3168-026-P1-K1-G1
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2190554
BLAST score
                   464
E value
                   2.0e-46
                   109
Match length
% identity
NCBI Description
                   (AC001229) Similar to Arabidopsis cytochrome P450 CYP90
                   (gb X87367). [Arabidopsis thaliana]
                   143379
Seq. No.
                   LIB3168-026-P1-K1-G10
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   635
                   1.0e-66
E value
                   123
Match length
                   99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143380
                   LIB3168-026-P1-K1-G11
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4519195
BLAST score
                   155
E value
                   9.0e-82
Match length
                   355
                   95
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MQC12, complete sequence
Seq. No.
                   143381
Seq. ID
                   LIB3168-026-P1-K1-G12
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   674
E value
                   4.0e-71
Match length
                   129
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

```
cruciferin seed storage protein [Arabidopsis thaliana]
                    Seq. No.
                    143382
                    LIB3168-026-P1-K1-G2
 Seq. ID
 Method
                    BLASTN
 NCBI GI
                    q4539309
 BLAST score
                    340
 E value
                    0.0e + 00
                    379
 Match length
 % identity
                    99
                    Arabidopsis thaliana DNA chromosome 4, BAC clone F19H22
 NCBI Description
                     (ESSA project)
                    143383
 Seq. No.
                    LIB3168-026-P1-K1-G3
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    q4538979
                    186
 BLAST score
 E value
                    6.0e-14
                    98
 Match length
                    52
 % identity
                    (AL049487) putative protein [Arabidopsis thaliana]
 NCBI Description
                    143384
 Seq. No.
 Seq. ID
                    LIB3168-026-P1-K1-G4
 Method
                    BLASTX
*NCBI GI
                    g2129657
                    329 -
 BLAST score
                    1.0e-30
 E value
 Match length
                    97
                    73
 % identity
                    oleosin isoform - Arabidopsis thaliana
 NCBI Description
                    >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                     [Arabidopsis thaliana]
                    143385
 Seq. No.
                    LIB3168-026-P1-K1-G5
 Seq. ID
 Method
                    BLASTN
 NCBI GI
                    q3335170
 BLAST score
                    115
                    5.0e-58
 E value
 Match length
                    290
                    97
 % identity
                    Arabidopsis thaliana embryo-specific protein 3 (ATS3) gene,
 NCBI Description
                    complete cds
 Seq. No.
                    143386
 Seq. ID
                    LIB3168-026-P1-K1-G6
 Method
                    BLASTX
 NCBI GI
                    q1628583
 BLAST score
                    64
                    1.0e-51
 E value
 Match length
                    118
 % identity
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
```

thaliana] >gi 2842495 emb\_CAA16892\_ (AL021749) 12S

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                                                      Seq. No.
                  143387
Seq. ID
                  LIB3168-026-P1-K1-G7
                  BLASTX
Method
                  g1864017
NCBI GI
                  573
BLAST score
                  3.0e-59
E value
Match length
                  110
                  99
% identity
                   (D63396) elongation factor-1 alpha [Nicotiana tabacum]
NCBI Description
                  143388
Seq. No.
                  LIB3168-026-P1-K1-G8
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
                   638
BLAST score
                   6.0e-67
E value
                  125
Match length
                  98
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143389
Seq. No.
                  LIB3168-026-P1-K1-G9
Seq. ID
Method
                  BLASTX
                  g3687228
NCBI GI
                  269
BLAST score
                   7.0e-24
E value
                  54
Match length
                   93
% identity
                   (AC005169) putative malate dehydrogenase [Arabidopsis
NCBI Description
                   thaliana]
                  143390
Seq. No.
Seq. ID
                  LIB3168-026-P1-K1-H1
Method
                  BLASTX
                   g1628583
NCBI GI
                   625
BLAST score
                   2.0e-65
E value
                   120
Match length
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143391
Seq. No.
                  LIB3168-026-P1-K1-H10
Seq. ID
Method
                   BLASTX
                   g2129639 ·
NCBI GI
                   347
BLAST score
                   3.0e-33
E value
                   69
Match length
                   99
% identity
                  luminal binding protein (BiP) - Arabidopsis thaliana
NCBI Description
```

NCBI GI

BLAST score

```
>gi 1303695 dbj BAA12348 (D84414) luminal binding protein
                   (BiP) [Arabidopsis thaliana]
                  143392
Seq. No.
                  LIB3168-026-P1-K1-H12
Seq. ID
Method
                  BLASTX
                  g2129659
NCBI GI
                  156
BLAST score
E value
                   2.0e-10
                  55
Match length
% identity
                   60
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                   (L40954) oleosin [Arabidopsis thaliana]
                   143393
Seq. No.
                  LIB3168-026-P1-K1-H2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g21112
BLAST score
                  215
E value
                  3.0e-17
Match length
                  48
% identity
                  83
NCBI Description
                  (X59805) cruciferin [Raphanus sativus]
Seq. No.
                  143394
Seq. ID
                  LIB3168-026-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  675
                  3.0e-71
E value
Match length
                  131
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143395
Seq. ID
                  LIB3168-026-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  a112737
BLAST score
                  215
E value
                   3.0e-17
Match length
                  99
% identity
                   48
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143396
Seq. ID
                  LIB3168-026-P1-K1-H6
Method
                  BLASTX
```

g1628583

529

```
3.0e-54
E value
Match length
                  103
% identity ≈
                 - 99 ..
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143397
Seq. ID
                  LIB3168-026-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  g1370186
BLAST score
                  470
E value
                  3.0e-47
Match length
                  93
% identity
                  98
NCBI Description
                  (Z73942) RAB7C [Lotus japonicus]
                  143398
Seq. No.
Seq. ID
                  LIB3168-026-P1-K1-H8
Method
                  BLASTN
NCBI GI
                  q2765441
BLAST score
                  267
E value
                  1.0e-148
Match length
                  298
                  97
% identity
NCBI Description
                  Arabidopsis thaliana mRNA for ethylene-regulated transcript
                  143399
Seq. No.
Seq. ID
                  LIB3168-026-P1-K1-H9
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  551
E value
                  2.0e-67
Match length
                  132
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143400
Seq. No.
Seq. ID
                  LIB3168-027-P1-K1-A1
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  330
E value
                  3.0e-52
Match length
                  132
% identity
                  76
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143401
Seq. ID
                  LIB3168-027-P1-K1-A10
Method
                  BLASTX
NCBI GI
                  g1628583
```

```
625
BLAST score
                   3.0e-65
E value
                  120
Match length
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143402
                   LIB3168-027-P1-K1-A11
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4263774
BLAST score
                   189
                   1.0e-102
E value
Match length
                   475
% identity
                   Arabidopsis thaliana chromosome II BAC T20F21 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   143403
Seq. No.
                   LIB3168-027-P1-K1-A12
Seq. ID
Method
                   BLASTN
NCBI GI
                   q2828180
BLAST score
                   234
E value
                   1.0e-129
Match length
                   451
                   97
 % identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MDK4, complete sequence [Arabidopsis thaliana]
Seq. No.
                   143404
                   LIB3168-027-P1-K1-A3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   357
E value
                   3.0e-56
Match length
                   117
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143405
                   LIB3168-027-P1-K1-A4
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   648
                   5.0e-68
E value
Match length
                   150
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir __S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
```

143406

Seq. No.

Seq. No.

143411

```
LIB3168-027-P1-K1-A5
Seq. ID
                   BLASTX
Method.
                   g2129657
NCBI GI
BLAST score
                   398
                   1.0e-38
E value
                   109
Match length
                   77
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   143407
                   LIB3168-027-P1-K1-A6
Seq. ID
Method
                   BLASTN
                   q3869071
NCBI GI
                   86
BLAST score
                   2.0e-40
E value
                   118
Match length
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MIL23, complete sequence [Arabidopsis thaliana]
                   143408
Seq. No.
                   LIB3168-027-P1-K1-A7
Seq. ID
Method
                   BLASTN
                   g2244829
NCBI GI
                   77
BLAST score
                   8.0e-36
E value
                   92
Match length
% identity
                   97
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                   fragment No
Seq. No.
                   143409
Seq. ID
                   LIB3168-027-P1-K1-A9
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   648
E value
                   4.0e-68
Match length
                   125
% identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143410
                   LIB3168-027-P1-K1-B1
Seq. ID
Method
                   BLASTX
NCBI GI
                   q2829893
BLAST score
                   494
E value
                   3.0e-50
                   96
Match length
% identity
NCBI Description (AC002311) phosphoglucomutase [Arabidopsis thaliana]
```



LIB3168-027-P1-K1-B10

Method BLASTX
NCBI GI g112743
BLAST score 680
E value 9.0e-72
Match length 145
% identity 88

Seq. ID

NCBI Description 2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68856\_pir\_\_NWMU4 2S albumin 4 precursor -

Arabidopsis thaliana >gi\_166617 (M22033) albumin 2S subunit 4 precursor [Arabidopsis thaliana] >gi\_395202\_emb\_CAA80869\_

(Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]

>gi\_4490713\_emb\_CAB38847.1\_ (AL035680) NWMU4-2S albumin 4

precursor [Arabidopsis thaliana]

Seq. No. 143412

Seq. ID LIB3168-027-P1-K1-B12

Method BLASTX
NCBI GI g1628583
BLAST score 272
E value 4.0e-24
Match length 88

Match length 88 % identity 62

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 143413

Seq. ID LIB3168-027-P1-K1-B2

Method BLASTX
NCBI GI g112741
BLAST score 525
E value 9.0e-54
Match length 98

% identity 99

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit
3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 143414

Seq. ID LIB3168-027-P1-K1-B3

Method BLASTX
NCBI GI g3335171
BLAST score 72
E value 2.0e-11
Match length 61
% identity 65

NCBI Description (AF067858) embryo-specific protein 3 [Arabidopsis thaliana]

Seq. No. 143415

Seq. ID LIB3168-027-P1-K1-B4

Method BLASTX NCBI GI g1628583

Seq. ID Method

```
BLAST score
                     717
   E value
                     4.0e-76
Match length
                     138
   % identity
                     99
   NCBI Description
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
                     thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
   Seq. No.
                     143416
   Seq. ID
                     LIB3168-027-P1-K1-B5
  Method · ·
                     BLASTX
  NCBI GI
                     q1628583
  BLAST score
                     541
   E value
                     2.0e-55
  Match length
                     120
   % identity
                     88
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
  NCBI Description
                     thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
   Seq. No.
                     143417
   Seq. ID
                     LIB3168-027-P1-K1-B8
  Method
                     BLASTX
  NCBI GI
                     q2924258
  BLAST score
                     168
  E value
                     2.0e-12
  Match length
                     50
   % identity
                     64
  NCBI Description
                     (Z00044) RNA polymerase beta'' subunit [Nicotiana tabacum]
  Seq. No.
                     143418
  Seq. ID
                     LIB3168-027-P1-K1-B9
  Method
                     BLASTX
  NCBI GI
                     q1628583
  BLAST score
                     621
  E value
                     8.0e-65
  Match length
                     120
   % identity
  NCBI Description
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
                     thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
                     143419
  Seq. No.
                     LIB3168-027-P1-K1-C1
  Seq. ID
  Method
                     BLASTX
  NCBI GI
                     g1628583
  BLAST score
                     532
  E value
                     2.0e-54
                     100
  Match length
  % identity
  NCBI Description
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
                     thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
  Seq. No.
                     143420
```

17685

LIB3168-027-P1-K1-C10

BLASTX

```
q112737
NCBI GI
BLAST score
                  381
                  9.0e-37
E value
Match length
                  68
                  100
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >qi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204 emb CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  143421
Seq. No.
Seq. ID
                  LIB3168-027-P1-K1-C11
                  BLASTX
Method
                  q4490295
NCBI GI
                  594
BLAST score
                  1.0e-61
E value
Match length
                  137
% identity
                   (AL035678) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  143422
Seq. No.
                  LIB3168-027-P1-K1-C12
Seq. ID
Method
                  BLASTX
                  q112682
NCBI GI
BLAST score
                  650
                  3.0e-68
E value
Match length
                  148
% identity
                  8.3
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143423
Seq. No.
                  LIB3168-027-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143424
                  LIB3168-027-P1-K1-C5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4539005
                  728
BLAST score
                  2.0e-77
E value
                  148
Match length
% identity
                  99
```

```
NCBI Description (AL049481) putative oxidoreductase [Arabidopsis thaliana]
                   143425
Seq. No.
                   LIB3168-027-P1-K1-C6
Seq. ID
Method
                   BLASTX
                   g135858
NCBI GI
BLAST score
                   375
E value
                   6.0e-36
                   76
Match length
                   97
% identity
                   TONOPLAST INTRINSIC PROTEIN, ALPHA (ALPHA TIP)
NCBI Description
                   >qi 99760 pir S22201 tonoplast intrinsic protein alpha -
                   Arabidopsis thaliana >gi 16182 emb CAA45114 (X63551)
                   tonoplast intrinsic protein: alpha-TIP(Ara) [Arabidopsis thaliana] >gi_166623 (M84343) tonoplast intrinsic protein
                   [Arabidopsis thaliana] >gi_445128_prf__1908432A tonoplast
                   intrinsic protein alpha [Arabidopsis thaliana]
Seq. No.
                   143426
                   LIB3168-027-P1-K1-C7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   791
E value
                   9.0e-85
Match length
                   153
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143427
                   LIB3168-027-P1-K1-C9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   403
E value
                   3.0e-39
Match length
                   112
                   73
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143428
Seq. No.
                   LIB3168-027-P1-K1-D1
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112681
BLAST score
                   644
                   1.0e-67
E value
                   147
Match length
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
```

143429

Seq. No.

```
LIB3168-027-P1-K1-D10
Seq. ID
Method
                  BLASTX
NCBÍ GI
                  q3292816
BLAST score
                  479
E value
                  3.0e-48
Match length
                  111
% identity
NCBI Description
                  (AL031018) putative fizzy-related protein [Arabidopsis
                  thaliana]
Seq. No.
                  143430
                  LIB3168-027-P1-K1-D11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  440
E value
                  1.0ė-43
Match length
                  118
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143431
Seq. ID
                  LIB3168-027-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143432
Seq. No.
Seq. ID
                  LIB3168-027-P1-K1-D2
Method
                  BLASTN
NCBI GI
                  q2842474 ·
BLAST score
                  196
                  1.0e-106
E value
Match length
                  280
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
                  143433
Seq. No.
Seq. ID
                  LIB3168-027-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  661
                  2.0e-69
E value
Match length
                  151
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb_CAA32493_ (X14312) 12S seed
```

E value

## storage protein [Arabidopsis thaliana]

```
143434
                                         y-
Seq. No.
Seq. ID
                  LIB3168-027-P1-K1-D4
Method
                   BLASTX
NCBI GI
                   q112681
                   685
BLAST score
E value
                   2.0e-72
Match length
                   138
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143435
Seq. No.
                  LIB3168-027-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                   g4204298
BLAST score
                   573
                   3.0e-59
E value
                   144
Match length
% identity
NCBI Description
                   (AC003027) 1cl prt seq No definition line found
                   [Arabidopsis thaliana]
                   143436
Seq. No.
Seq. ID
                  LIB3168-027-P1-K1-D7
Method
                  BLASTX
NCBI GI
                   q1628583
BLAST score
                   562
E value
                   6.0e-58
Match length
                   120
                   90
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143437
Seq. No.
Seq. ID
                  LIB3168-027-P1-K1-D8
Method
                  BLASTX
NCBI GI
                   g4586047
BLAST score
                   254
E value
                   2.0e-22
Match length
                  110
                   55
% identity
NCBI Description
                   (AC007020) putative ferritin protein [Arabidopsis thaliana]
                  >gi_4588004_gb_AAD25945.1_AF085279_18 (AF085279)
                  hypothetical ferritin subunit [Arabidopsis thaliana]
Seq. No.
                  143438
Seq. ID
                  LIB3168-027-P1-K1-D9
Method
                  BLASTX
                  g4678285
NCBI GI
BLAST score
                  432
```

1.0e-42

NCBI GI

```
142
 Match length
                   53
 % identity
                   (AL049660) putative protein [Arabidopsis thaliana]
NCBI Description
                   143439
 Seq. No.
                   LIB3168-027-P1-K1-E10
 Seq. ID
 Method
                   BLASTN
 NCBI GI
                   q4159702
 BLAST score
                   226
                   1.0e-124
 E value
 Match length
                   392
 % identity
                   96
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
 NCBI Description
                   K2N11, complete sequence
                   143440
 Seq. No.
                   LIB3168-027-P1-K1-E11
 Seq. ID
 Method
                   BLASTX
                   g1628583
 NCBI GI
 BLAST score
                   625
 E value
                   3.0e-65
                   120
 Match length
                   100
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143441
 Seq. No.
                   LIB3168-027-P1-K1-E2
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g112681
 BLAST score
                   665
 E value
                   5.0e-70
 Match length
                   151
                   85
 % identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
 NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143442
 Seq. No.
                   LIB3168-027-P1-K1-E4
 Seq. ID
 Method
                   BLASTX
                   g1628583
 NCBI GI
 BLAST score
                   625
 E value
                   2.0e-65
 Match length
                   120
                   100
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                   143443
                   LIB3168-027-P1-K1-E5
 Seq. ID
 Method
                   BLASTX
```

q1345973

```
BLAST score
                    567
E value
                    2.0e-58
Match length
                    122
% identity
                    85
                    OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                   >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC
1.14.99.-) CF3 - Arabidopsis thaliana >gi_408483 (L22931)
                    omega-3 fatty acid desaturase [Arabidopsis thaliana]
                   >gi_471091_dbj_BAA04505_ (D17579) fatty acid desaturase
[Arabidopsis thaliana] >gi_1197795_dbj_BAA05514_ (D26508)
                   microsomal omega-3 fatty acid desaturase [Arabidopsis
                    thaliana] >gi 3420053 (AC004680) omega-3 fatty acid
                   desaturase [Arabidopsis thaliana]
Seq. No.
                    143444
Seq. ID
                   LIB3168-027-P1-K1-E6
Method
                   BLASTX
NCBI GI
                    g1628583.
BLAST score
                    625
E value
                    3.0e-65
Match length
                    120
% identity
                    100
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    143445
                   LIB3168-027-P1-K1-E7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   588
E value
                    5.0e-61
Match length
                   149
% identity
                   80
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143446
                   LIB3168-027-P1-K1-E8
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   644
E value
                   2.0e-67
Match length
                   147
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
```

Seq. No. 143447

Seq. ID LIB3168-027-P1-K1-E9

Method BLASTN

```
q4455348
NCBI GI
                  98
BLAST score
                  3.0e-48
E value
Match length
                  122
                  96
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone
NCBI Description
                  (ESSAII project)
Seq. No.
                  143448
                  LIB3168-027-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  624
                  3.0e-65
E value
Match length
                  146
% identity
                  82
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143449
                  LIB3168-027-P1-K1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3355477
BLAST score
                  641
E value
                  3.0e-67
Match length
                  149
% identity
                  (AC004218) putative P-glycoprotein, pgpl [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  143450
Seq. ID
                  LIB3168-027-P1-K1-F2
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143451
Seq. ID
                  LIB3168-027-P1-K1-F3
Method
                  BLASTX
NCBI GI
                 ...q136739
BLAST score
                  355
E value
                  1.0e-33
Match length
                  112
% identity
                  UTP--GLUCOSE-1-PHOSPHATE URIDYLYLTRANSFERASE (UDP-GLUCOSE
NCBI Description
```

PYROPHOSPHORYLASE) (UDPGP) >gi 67061 pir XNPOU

```
pyrophosphorylase precursor [Solanum tuberosum]
Seq. No.
                   143452
                   LIB3168-027-P1-K1-F4
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2656031
BLAST score
                   324
E value
                   0.0e+00
Match length
                   424
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   143453
Seq. No.
                   LIB3168-027-P1-K1-F5
Seq. ID
                   BLASTX
Method
NCBI GI
                   q1628583
BLAST score
                   541
                   2.0e-55
E value
                   120
Match length
% identity
                   88
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143454
                   LIB3168-027-P1-K1-F6
Seq. ID
Method
                   BLASTX
NCBI GI
                   q2494320
BLAST score
                   470
E value
                   4.0e-47
                   150
Match length
                   67
% identity
NCBI Description
                   EUKARYOTIC TRANSLATION INITIATION FACTOR 5 (EIF-5)
                   >gi 1806575 emb CAA67868 (X99517) Eukaryotic initiation
                   factor-5 [Zea mays]
                   143455
Seq. No.
Seq. ID
                   LIB3168-027-P1-K1-F7
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   232
                   3.0e-19
E value
Match length
                   87
% identity
                   100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                  143456
Seq. No.
Seq. ID
                   LIB3168-027-P1-K1-F8
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   624
E value
                   3.0e-65
```

UTP--glucose-1-phosphate uridylyltransferase (EC 2.7.7.9) -

potato >gi\_218001\_dbj\_BAA00570\_ (D00667) UDP-glucose

Match length 146
% identity 82
NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor - Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

precursor [Arabidopsis thaliana]

Seq. No. 143457

Seq. ID LIB3168-027-P1-K1-G1

Method BLASTX
NCBI GI g1628583
BLAST score 756
E value 1.0e-80
Match length 149
% identity 98

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 143458

Seq. ID LIB3168-027-P1-K1-G11

Method BLASTX
NCBI GI g112681
BLAST score 635
E value 2.0e-66
Match length 145
% identity 85

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis

thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 143459

Seq. ID LIB3168-027-P1-K1-G12

Method BLASTX
NCBI GI g112682
BLAST score 646
E value 9.0e-68
Match length 147
% identity 83

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 143460

Seq. ID LIB3168-027-P1-K1-G2

Method BLASTX
NCBI GI g2160146
BLAST score 418
E value 5.0e-41
Match length 137

Method

BLASTX

```
% identity
                  (AC000375) Strong similarity to Arabidopsis
NCBI Description
                  gb X91953,F21M12.3,F21M12.1. EST gb H36326 comes from this
                  gene. [Arabidopsis thaliana]
Seq. No.
                  143461
Seq. ID
                  LIB3168-027-P1-K1-G3
Method
                  BLASTX
NCBI GI
                  g81546
BLAST score
                  243
                  2.0e-20
E value
Match length
                  153
% identity
NCBI Description
                  alpha-globulin type B precursor (tandem 1) - upland cotton
                  (fragment)
Seq. No.
                  143462
Seq. ID
                  LIB3168-027-P1-K1-G4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  687
E value
                  1.0e-72
Match length
                  151
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143463
Seq. ID
                  LIB3168-027-P1-K1-G5
Method
                  BLASTX
NCBI GI
                  g4469003
BLAST score
                  690
E value
                  6.0e-73
Match length
                  150
                  87
% identity
NCBI Description (AL035602) putative protein [Arabidopsis thaliana]
Seq. No.
                  143464
                  LIB3168-027-P1-K1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  340
                  4.0e-32
E value
Match length
                  84
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >qi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143465
                  LIB3168-027-P1-K1-G8
Seq. ID
```

```
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143466
Seq. No.
                  LIB3168-027-P1-K1-G9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  756
E value
                  1.0e-80
                 148
Match length
                  99
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143467
                  LIB3168-027-P1-K1-H1
Seq. ID
Method -
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143468
                  LIB3168-027-P1-K1-H10
Seq. ID
                  BLASTX
Method
                  q2605714
NCBI GI
BLAST score
                  464
E value
                  2.0e-46
Match length
                  112
% identity
                  (AF026275) beta-tonoplast intrinsic protein [Arabidopsis
NCBI Description
                  thaliana]
                  143469
Seq. No.
                  LIB3168-027-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No.

```
143470
Seq. No.
                  LIB3168-027-P1-K1-H2
Seq. ID
                  BLASTX
Method
                  g2444180
NCBI GI
                  560
BLAST score
                  9.0e-58
E value
Match length
                  136
% identity
                  84
                  (U94785) unconventional myosin [Helianthus annuus]
NCBI Description
Seq. No.
                  143471
                  LIB3168-027-P1-K1-H3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  620
E value
                  1.0e-64
Match length
                  120
                  99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143472
Seq. ID
                  LIB3168-027-P1-K1-H6
Method
                  BLASTX
NCBI GI
                  q3879811
BLAST score
                  148
E value
                  2.0e-09
Match length
                  45
% identity
                  56
                   (Z66524) Homology with Squid retinal-binding protein (PIR
NCBI Description
                  Acc. No. A53057) [Caenorhabditis elegans]
Seq. No.
                  143473
Seq. ID
                  LIB3168-027-P1-K1-H9
Method
                  BLASTN
NCBI GI
                  q4581161
BLAST score
                  269
E value
                  1.0e-149
Match length
                  423
% identity
                  Arabidopsis thaliana chromosome II BAC T20G20 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  143474
Seq. ID
                  LIB3168-028-P1-K1-A1
Method
                  BLASTN
NCBI GI
                  g2656026
BLAST score
                  281
                  1.0e-157
E value
Match length
                  362
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MDF20
```

NCBI Description

```
LIB3168-028-P1-K1-A10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4204277
                  687
BLAST score
                  1.0e-72
E value
                  128
Match length
% identity
                  98
NCBI Description
                  (AC004146) Hypothetical protein [Arabidopsis thaliana]
                  143476
Seq. No.
                  LIB3168-028-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  562
E value
                  6.0e-58
Match length
                  141
% identity
                  79
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143477
Seq. No.
                  LIB3168-028-P1-K1-A3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  493
E value
                  7.0e-50
Match length
                  127
% identity
                  78
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143478
Seq. ID
                  LIB3168-028-P1-K1-A4
Method
                  BLASTN
NCBI GI
                  g4757403
BLAST score
                  240
E value
                  1.0e-132
Match length
                  416
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MJL12, complete sequence
Seq. No.
                  143479
                  LIB3168-028-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3600031
BLAST score
                  533
E value
                  1.0e-54
Match length
                  130
% identity
                  (AF080119) similar to 2,4-dihydroxyhept-2-ene-1,7-dioic
```

## acid aldolases [Arabidopsis thaliana]

```
143480
Seq. No.
                  LIB3168-028-P1-K1-A6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4314374
BLAST score
                  348
                  0.0e + 00
E value
Match length
                  364
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC F10A12 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  143481
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-A7
                  BLASTX
Method
NCBI GI
                  g112682
                  591
BLAST score
                  2.0e-61
E value
                  137
Match length
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143482
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-A8
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  699
                  5.0e-74
E value
Match length
                  138
% identity
                  96
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143483
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-A9
                  BLASTX
Method
NCBI GI
                  g3169172
BLAST score
                  416
E value
                  5.0e-41
Match length
                  112
% identity
                  (AC004401) putative serine carboxypeptidase I [Arabidopsis
NCBI Description
                  thaliana] >gi_3445214 (AC004786) putative serine
                  carboxypeptidase I [Arabidopsis thaliana]
                  143484
Seq. No.
                  LIB3168-028-P1-K1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
                  268
BLAST score
                  6.0e-45
E value
```

Seq. ID

```
121
Match length
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143485
Seq. No.
                  LIB3168-028-P1-K1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  618
E value
                  2.0e-64
Match length
                  120
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143486
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-B4
Method
                  BLASTX
NCBI GI
                  q1497987
BLAST score
                  393
E value
                  4.0e-38
                  140
Match length
                  57
% identity
NCBI Description (U62798) SCARECROW [Arabidopsis thaliana]
Seq. No.
                  143487
Seq. ID
                  LIB3168-028-P1-K1-B5
Method
                  BLASTX
NCBI GI
                  g3914468
BLAST score
                  312
                  1.0e-28
E value
Match length
                  114
% identity
                  56
NCBI Description
                  26S PROTEASOME REGULATORY SUBUNIT S3 (NUCLEAR ANTIGEN 21D7)
                  >gi_478411_pir__JQ2257 nuclear antigen 21D7 - carrot
                  >gi 217911 dbj BAA02696 (D13434) 21D7 antigen [Daucus
                  carota]
                  143488
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  318
E value
                  2.0e-29
Match length
                  60
% identity
                  98
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143489
```

LIB3168-028-P1-K1-B9

Method

BLASTX

```
Method
                  BLASTN
NCBI GI
                  g2564047
BLAST score
                  34
E value
                  1.0e-09
Match length
                  130
% identity
                  79
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MJB21, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143490
Seq. ID
                  LIB3168-028-P1-K1-C1
Method
                  BLASTX
NCBI GI
                  g4204299
BLAST score
                  199
E value
                  6.0e-37
Match length
                  86
% identity
NCBI Description
                  (AC003027) lcl prt seq No definition line found
                  [Arabidopsis thaliana]
Seq. No.
                  143491
Seq. ID
                  LIB3168-028-P1-K1-C11
Method
                  BLASTN
NCBI GI
                  g3461834
BLAST score
                  44
E value
                  7.0e-16
Match length
                  102
% identity
                  93
                  Arabidopsis thaliana chromosome II BAC T9I4 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143492
Seq. ID
                  LIB3168-028-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  619
E value
                  1.0e-64
Match length
                  126
% identity
                  98
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143493
Seq. ID
                  LIB3168-028-P1-K1-C2
Method
                  BLASTX
NCBI GI
                  g2190554
BLAST score
                  169
E value
                  4.0e-14
Match length
                  78
                  50
% identity
                  (AC001229) Similar to Arabidopsis cytochrome P450 CYP90
NCBI Description
                  (gb_X87367). [Arabidopsis thaliana]
Seq. No.
                  143494
Seq. ID
                  LIB3168-028-P1-K1-C4
```

NCBI GI

```
NCBI GI
                  g401169
BLAST score
                  203
E value
                  3.0e-16
Match length
                  43
% identity
                  93
NCBI Description
                  TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP)
                  143495
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  q2129657
BLAST score
                  335
E value
                  2.0e-31
Match length
                  97
                  74
% identity
NCBI Description
                  oleosin isoform - Arabidopsis thaliana
                  >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
                  thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                  [Arabidopsis thaliana]
                  143496
Seq. No.
                  LIB3168-028-P1-K1-D1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q21112
BLAST score
                  265
E value
                  4.0e-23
Match length
                  60
% identity
NCBI Description (X59805) cruciferin [Raphanus sativus]
Seq. No.
                  143497
Seq. ID
                  LIB3168-028-P1-K1-D11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  578
E value
                  6.0e-60
Match length
                  112
                  98
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143498
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  g2853090
BLAST score
                  442
E value
                  6.0e-44
Match length
                  91
% identity
NCBI Description
                  (AL021768) small GTP-binding protein-like [Arabidopsis
                  thaliana]
                  143499
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-D3
Method
                  BLASTN
```

q4589409

```
BLAST score
E value
                  1.0e-127
Match length
                  360
% identity
                  32 '
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  F17P19, complete sequence
                  143500
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  630
E value
                  6.0e-66
Match length
                  117
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143501
Seq. No.
                  LIB3168-028-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g529353
BLAST score
                  169
E value
                  4.0e-38
Match length
                  110
% identity
                  (U12757) diphenol oxidase [Acer pseudoplatanus]
NCBI Description
Seq. No.
                  143502
                  LIB3168-028-P1-K1-D6
Seq. ID
Method
                  BLASTX 1
NCBI GI
                  g2982440
BLAST score
                  236
E value
                  3.0e-40
Match length
                  122
% identity
NCBI Description
                  (AL022224) terpene cyclase like protein [Arabidopsis
                  thaliana]
Seq. No.
                  143503
                  LIB3168-028-P1-K1-D7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  547
E value
                  3.0e-56
Match length
                  131
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

BLAST score

```
143504
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-D8
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  220
                  4.0e-18
E value
                  52
Match length
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >qi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >qi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  143505
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-D9
Method
                  BLASTN
                  g4589409
NCBI GI
                  34
BLAST score
E value
                  1.0e-09
                  69
Match length
                  27
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  F17P19, complete sequence
Seq. No.
                  143506
Seq. ID
                  LIB3168-028-P1-K1-E1
Method
                  BLASTX
NCBI GI
                  g629602
BLAST score
                  118
E value
                  2.0e-19
                  86
Match length
                  .53
% identity
                  probable imbibition protein - wild cabbage
NCBI Description
                  >gi_488787_emb_CAA55893_ (X79330) putative imbibition
                  protein [Brassica oleracea]
                  143507
Seq. No.
                  LIB3168-028-P1-K1-E11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3335169
BLAST score
                  736
                  2.0e-78
E value
Match length
                  136
% identity
                   (AF067857) embryo-specific protein 1 [Arabidopsis thaliana]
NCBI Description
                  >gi 4455197_emb_CAB36520.1 (AL035440) embryo-specific
                  protein 1 (ATS1) [Arabidopsis thaliana]
                  143508
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-E3
Method
                  BLASTN
NCBI GI
                  q1313927
```

Method

BLASTN

```
4.0e-16
E value
Match length
                  191
% identity
                  82
NCBI Description
                  B.oleracea mRNA for IFA binding protein (spl0)
                  143509
Seq. No.
                  LIB3168-028-P1-K1-E4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  493
                  3.0e-60
E value
Match length
                  123
% identity
                  95
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143510
Seq. ID
                  LIB3168-028-P1-K1-E5
Method
                  BLASTN
NCBI GI
                  q166569
BLAST score
                  234
E value
                  1.0e-129
Match length
                  238
% identity
NCBI Description
                  Arabidopsis thaliana glycine rich protein (RAB18) gene,
                  complete cds
Seq. No.
                  143511
Seq. ID
                  LIB3168-028-P1-K1-E6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  426
E value
                  3.0e-42
Match length
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143512
                  LIB3168-028-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g120675
BLAST score
                  434
E value
                  5.0e-43
Match length
                  106
% identity
NCBI Description
                  GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, CYTOSOLIC
                  >gi 66011 pir DEIS3C glyceraldehyde-3-phosphate
                  dehydrogenase (EC 1.2.1.12), cytosolic - white mustard
                  >gi_21143 emb CAA27844 (X04301) GAPDH (aa 1-338) [Sinapis
                  alba]
Seq. No.
                  143513
Seq. ID
                  LIB3168-028-P1-K1-F1
```

Seq. No.

```
g3128139
NCBI GI
BLAST score
                  149
                  4.0e-78
E value
                  418
Match length
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MIK19, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143514
                  LIB3168-028-P1-K1-F10
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3319359
BLAST score
                  296
E value
                  1.0e-166
Match length
                  355
                  95
% identity
NCBI Description Arabidopsis thaliana BAC T7M24
                  143515
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  704
E value
                  1.0e-74
                  133
Match length
                  98
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143516
                  LIB3168-028-P1-K1-F12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g166609
BLAST score
                  175
                  1.0e-93
E value
                  427
Match length
                  82
% identity
                  A.thaliana at 2S1 gene encoding albumin 2S subunit 1,
NCBI Description
                  complete cds
                  143517
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-F2
                  BLASTN
Method
NCBI GI
                  g3056579
BLAST score
                  407
                  0.0e+00
E value
                  427
Match length
                  99
% identity
                  Arabidopsis thaliana BAC T1F9 chromosome 1, complete
NCBI Description
                  sequence [Arabidopsis thaliana]
```

NCBI GI

q112681

```
LIB3168-028-P1-K1-F4
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  486
                  5.0e-49
E value
                  127
Match length
                  76
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143519
                  LIB3168-028-P1-K1-F5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3080427
BLAST score
                  147
E value
                  1.0e-15
Match length
                  91
% identity
NCBI Description
                  (AL022604) putative protein [Arabidopsis thaliana]
Seq. No.
                  143520
Seq. ID
                  LIB3168-028-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  712
E value
                 1.0e-75
Match length
                  134
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143521
Seq. ID
                  LIB3168-028-P1-K1-F7
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  354
E value
                  8.0e-34
Match length
                  88
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >qi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >qi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143522
Seq. ID
                  LIB3168-028-P1-K1-F8
Method
                  BLASTX
```

Seq. ID

```
BLAST score
                  714
                  8.0e-76
E value
Match length
                  140
% identity
                  96
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143523
                  LIB3168-028-P1-K1-G1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  554
E value
                  5.0e-57
Match length
                  120
                  90
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143524
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-G11
Method
                  BLASTN
NCBI GI
                  g4159712
BLAST score
                  65
E value
                  4.0e-28
Match length
                  113
                  89
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MWI23, complete sequence
Seq. No.
                  143525
Seq. ID
                  LIB3168-028-P1-K1-G12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  559
E value
                  1.0e-57
Match length
                  141
                  79
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143526
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-G2
Method
                  BLASTX
NCBI GI
                  g2702272
BLAST score
                  581
E value
                  3.0e-60
Match length
                  140
% identity
                  (AC003033) hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143527
```

LIB3168-028-P1-K1-G3

```
Method
                  BLASTX
NCBI GI
                  g4758340
BLAST score
                  163
E value
                  3.0e-11
Match length
                  130
% identity
                  33
                  phenylalanine-tRNA synthetase-like >gi 2102679 (U07424)
NCBI Description
                  putative tRNA synthetase-like protein [Homo sapiens]
                  >qi 4104935 qb AAD02221 (AF042347) putative
                  phenylalanyl-tRNA synthetase alpha-subunit; PheHA [Homo
                  sápiens]
                  143528
Seq. No.
                  LIB3168-028-P1-K1-G4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  607
                  3.0e-63
E value
Match length
                  120
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143529
Seq. No.
                  LIB3168-028-P1-K1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  623
                  3.0e-65
E value
Match length
                  121
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143530
Seq. No.
                  LIB3168-028-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g729479
BLAST score
                  235
                  9.0e-20
E value
Match length
                  91
% identity
                  FERREDOXIN--NADP REDUCTASE PRECURSOR (FNR) >qi 551131
NCBI Description
                  (U14956) ferredoxin NADP+ reductase precursor [Vicia faba]
                  143531
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-G9
Method
                  BLASTX
NCBÍ GI
                  g112682
BLAST score
                  582
E value
                  3.0e-60
Match length
                  137
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
```

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494 (X14313) 12S seed
storage protein [Arabidopsis thaliana]

```
storage protein [Arabidopsis thaliana]
                  143532
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-H1
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  562
E value
                  5.0e-58
Match length
                  120
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143533
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-H10
Method ~
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  682
                  5.0e-72
E value
Match length
                  140
                  91
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143534
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-H11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  414
                  1.0e-40
E value
                  120
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143535
Seq. ID
                  LIB3168-028-P1-K1-H2
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  585
                  1.0e-60
E value
                  140
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
NCBI Description
```

Seq. No. 143536

storage protein [Arabidopsis thaliana]

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

```
Seq. ID
                  LIB3168-028-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  q1402904
BLAST score
                  673
E value
                  5.0e-71
Match length
                  130
% identity
NCBI Description
                  (X98313) peroxidase [Arabidopsis thaliana]
                  143537
Seq. No.
Seq. ID
                  LIB3168-028-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  618
                  2.0e-64
E value
Match length
                  120
% identity
                  99
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  LIB3168-028-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI-
                  q112682
BLAST score
                  563
E value
                  5.0e-58
Match length
                  134
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143539
Seq. ID
                  LIB3168-028-P1-K1-H6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  431
E value
                  7.0e-43
Match length
                  87
% identity
                  94
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143540
                  LIB3168-028-P1-K1-H9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g395203
BLAST score
                  176
                  3.0e-94
E value
Match length
                  346
% identity
                  67
```

NCBI Description A.thaliana 2S albumin gene isoforms 1 and 2, complete CDS's

BLAST score

```
Seq. No.
                  143541
Seq. ID
                  LIB3168-029-P1-K1-A1
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  571
E value
                  5.0e-59
Match length
                  137
                  81
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  143542
Seq. No.
                  LIB3168-029-P1-K1-A10
Seq. ID
                  BLASTN
Method
NCBI GI
                  q3293582
BLAST score
                  105
                  5.0e-52
E value
                  117
Match length
                  98
% identity
NCBI Description Arabidopsis thaliana BAC T15F16
                  143543 -
Seq. No.
                                                             - T-
Seq. ID
                  LIB3168-029-P1-K1-A11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  820
E value
                  4.0e-88
Match length
                  156
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143544
Seq. No.
                  LIB3168-029-P1-K1-A12
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  669
E value
                  2.0e-70
Match length
                  152
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143545
Seq. ID
                  LIB3168-029-P1-K1-A2
Method
                  BLASTX
                  g1628583
NCBI GI
```

4.0e-58 E value Match length 119 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi 2842495 emb\_CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. LIB3168-029-P1-K1-A3 Seq. ID Method BLASTX NCBI GI g112681 BLAST score 662 E value 1.0e-69 Match length 150 85 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana] 143547 Seq. No. LIB3168-029-P1-K1-A4 Seq. ID Method BLASTX NCBI GI g2129641 BLAST score 751 E value 5.0e-80 Match length 136 100 % identity major latex protein type 1 - Arabidopsis thaliana NCBI Description >gi 1107493 emb CAA63026 (X91960) major latex protein typel [Arabidopsis thaliana] Seq. No. 143548 Seq. ID LIB3168-029-P1-K1-A5 BLASTX Method NCBI GI g112682 BLAST score. 194 5.0e-15 E value Match length 38 100 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510 NCBI Description cruciferin precursor (CRB) - Arabidopsis thaliana >gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed storage protein [Arabidopsis thaliana] 143549 Seq. No. LIB3168-029-P1-K1-A6 Seq. ID BLASTX Method NCBI GI q1621268 BLAST score 585

E value 1.0e-60
Match length 128
% identity 88

NCBI Description (Z81012) unknown [Ricinus communis]

NCBI GI

```
Seq. No.
                  143550
Seq. ID
                  LIB3168-029-P1-K1-B1
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  682
E value
                  6.0e-72
Match length
                  156
                  83
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143551
Seq. ID
                  LIB3168-029-P1-K1-B10.
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  618
                  2.0e-64
E value
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143552
                  LIB3168-029-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2492953
BLAST score
                  197
E value
                  3.0e-15
Match length
                  86
% identity
                  CHORISMATE SYNTHASE 2 PRECURSOR
NCBI Description
                  (5-ENOLPYRUVYLSHIKIMATE-3-PHOSPHATE PHOSPHOLYASE 2)
                  >gi_542027_pir__S40409 chorismate synthase (EC 4.6.1.4) 2
                  precursor - tomato >gi 410484 emb CAA79854 (Z21791)
                  chorismate synthase 2 [Lycopersicon esculentum]
Seq. No.
                  143553
Seq. ID
                  LIB3168-029-P1-K1-B2
Method
                  BLASTN
NCBI GI
                  q4582411
BLAST score
                  419
E value
                  0.0e + 00
Match length
                  486
% identity
                  99
                  Arabidopsis thaliana chromosome 1 BAC T23K8 sequence,
NCBI Description
                  complete sequence
                  143554
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-B3
Method
                  BLASTX
```

q4204298

Method `

BLASTN

```
BLAST score
                  515
E value
                  1.0e-52
Match length
                  116
                  85
% identity
                  (AC003027) lcl_prt_seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
                  143555
Seq. No.
                  LIB3168-029-P1-K1-B5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4755193
BLAST score
                  597
                  5.0e-62
E value
                  122
Match length
% identity
                  (AC007018) putative ribosomal protein S17 [Arabidopsis
NCBI Description
                  thaliana]
                  143556
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g4454013
BLAST score
                  743
E value
                  4.0e-79
Match length
                  145
                  100
% identity
                  (AL035396) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143557
Seq. ID
                  LIB3168-029-P1-K1-B7
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  522
E value
                  2.0e-53
                  124
Match length
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143558
Seq. ID
                  LIB3168-029-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  642
E value
                  3.0e-67
                  123
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143559
Seq. ID
                  LIB3168-029-P1-K1-C12
```

Method

BLASTX

```
NCBI GI
                   g4589425
BLAST score
                   187
                   1.0e-101
E value
                   228
Match length
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MBA10, complete sequence
                  143560
Seq. No.
                  LIB3168-029-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   621
E value
                   8.0e-65
Match length
                   120
                   99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143561
Seq. ID
                  LIB3168-029-P1-K1-C4
Method
                  BLASTX
NCBI GI
                  g2739046
BLAST score
                  377
E value
                  3.0e-36
                  123
Match length
                   54
% identity
NCBI Description
                   (AF024652) polyphosphoinositide binding protein Ssh2p
                   [Glycine max]
                  143562
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-C6
                  BLASTN
Method
NCBI GI
                  g2262135
BLAST score
                  354
E value
                  0.0e + 00
Match length.
                  382
% identity
                  98
                  Arabidopsis thaliana BAC T10P11 from chromosome IV, near 15
NCBI Description
                  cM, complete sequence
                  143563
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  642
                  3.0e-67
E value
Match length
                  123
% identity
                  100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143564
Seq. ID
                  LIB3168-029-P1-K1-C9
```

```
q2129532
NCBI GI
                  421
BLAST score
                  2.0e-41
E value
                  110
Match length
                  75
% identity
                  acyl-[acyl-carrier-protein] desaturase (EC 1.14.99.6) -
NCBI Description
                  Arabidopsis thaliana >gi 1107507 emb CAA63746 (X93461)
                  acyl-[acyl-carrier protein] desaturase [Arabidopsis
                  thaliana]
                  143565
Seq. No.
                  LIB3168-029-P1-K1-D10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2244906
BLAST score
                  542
                  1.0e-55
E value
Match length
                 154
                  70
% identity
                  (Z97339) indole-3-acetate beta-glucosyltransferase
NCBI Description
                  [Arabidopsis thaliana]
                  143566
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-D11
Method
                  BLASTX
NCBI GI
                  q1009234
BLAST score
                  717
                  4.0e-76
E value
Match length
                  154
% identity
                  84
                 (L38829) SUP2 gene product [Nicotiana tabacum]
NCBI Description
                  143567
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-D2
Method
                  BLASTN
NCBI GI
                  q4006885
BLAST score
                  324
                  0.0e+00
E value
Match length
                  453
                  98
% identity
                  Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
NCBI Description
                  fragment No
Seq. No.
                  143568
Seq. ID
                  LIB3168-029-P1-K1-D3
Method
                  BLASTX
                  g4678299
NCBI GI
BLAST score
                  816
                  1.0e-87
E value
Match length
                  158
                  99
% identity
                  (AL049655) cysteine proteinase precursor-like protein
NCBI Description
                  [Arabidopsis thaliana]
                  143569
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  q3941412
```

Seq. No.

```
505
BLAST score
E value
                  3.0e-51
Match length
                  91
% identity
                  99
NCBI Description
                  (AF062860) putative transcription factor [Arabidopsis
                  thaliana]
                  143570
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-D5
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143571
Seq. ID
                  LIB3168-029-P1-K1-D6
Method
                  BLASTN
NCBI GI
                  g3985932
BLAST score
                  247
E value
                  1.0e-137
Match léngth
                  251
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K22J17, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143572
Seq. ID
                  LIB3168-029-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  403
E value
                  3.0e-39
Match length
                  78
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143573
Seq. ID
                  LIB3168-029-P1-K1-D8
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  668
E value
                  2.0e-70
Match length
                  150
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
```

Seq. No.

```
Seq. ID
                  LIB3168-029-P1-K1-D9
Method
                  BLASTN
NCBI GI
                  q4314374
BLAST score
                  50 -
E value
                  1.0e-19
Match length
                  70
                  12
% identity
                  Arabidopsis thaliana chromosome II BAC F10A12 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  143575
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-E1
Method
                  BLASTX
NCBI GI
                  g3540201
BLAST score
                  613
E value
                  7.0e-64
Match length
                  152
                  81
% identity
                  (AC004260) Putative nuclear protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143576
Seq. ID
                  LIB3168-029-P1-K1-E10
Method
                  BLASTX
NCBI GI
                  g2924779
BLAST score
                  687
E value
                  1.0e-72
                  136
Match length
                  100
% identity
                  (AC002334) putative 3-ketoacyl-CoA thiolase [Arabidopsis
NCBI Description
                  thaliana] >gi_2981616_dbj_BAA25248_ (AB008854)
                  3-ketoacyl-CoA thiolase [Arabidopsis thaliana]
                  >gi 2981618 dbj BAA25249 (AB008855) 3-ketoacyl-CoA
                  thiolase [Arabidopsis thaliana]
                  143577
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  g2586125
BLAST score
                  351
E value
                  1.0e-33
                  79
Match length
% identity
                  (U89512) b-keto acyl reductase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143578
Seq. ID
                  LIB3168-029-P1-K1-E2
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  625
E value
                  3.0e-65
                  120
Match length
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

Match length

```
Seq. ID
                  LIB3168-029-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  q1076442
BLAST score
                  802
E value
                  5.0e-86
Match length
                  155
                  98
% identity
NCBI Description
                  beta-glucosidase (EC 3.2.1.21) - rape
                  >gi 757740 emb CAA57913 (X82577) beta-glucosidase
                  [Brassica napus]
Seq. No.
                  143580
                  LIB3168-029-P1-K1-E5
Seq. ID
Method
                  BLASTX
                  q1174852
NCBI GI
BLAST score
                  696
                                          • • •
E value
                  1.0e-73
Match length
                  129
                  100
% identity
                  UBIQUITIN-CONJUGATING ENZYME E2-19 KD (UBIQUITIN-PROTEIN
NCBI Description
                  LIGASE) (UBIQUITIN CARRIER PROTEIN) (TAYO29)
                  >gi 2129757 pir S46656 ubiquitin carrier protein E2 (clone
                  TAY029) - Arabidopsis thaliana >gi 600389 emb CAA51200
                   (X72625) ubiquitin conjugating enzyme E2 [Arabidopsis
                  thaliana] >qi 992708 (U33759) UBC14 [Arabidopsis thaliana]
                  143581
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-E6
Method
                  BLASTX
NCBI GI
                  g1742961
                  477
BLAST score
                  5.0e-48
E value
Match length
                  93
% identity
                   (X94756) cystathionine gamma-synthase [Arabidopsis
NCBI Description
                  thalianal
Seq. No.
                  143582
                  LIB3168-029-P1-K1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129657
BLAST score
                  396
E value
                  2.0e-38
Match length
                  110
% identity
NCBI Description
                  oleosin isoform - Arabidopsis thaliana
                  >qi 987014 emb CAA90877 (Z54164) oleosin [Arabidopsis
                  thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                  [Arabidopsis thaliana]
Seq. No.
                  143583
                  LIB3168-029-P1-K1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g119143
BLAST score
                  715
E value
                  8.0e-76
```

% identity

```
% identity.
NCBI Description ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
                  >gi 81606 pir S06724 translation elongation factor eEF-1
                 alpha chain - Arabidopsis thaliana >gi 295788 emb CAA34453
                  (X16430) elongation factor 1-alpha [Arabidopsis thaliana]
                  >gi 1369927 emb CAA34454 (X16431) elongation factor
                  1-alpha [Arabidopsis thaliana] >gi 1369928_emb_CAA34455
                  (X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                  >qi 1532172 (U63815) EF-lalpha-A1 [Arabidopsis thaliana]
                  >qi 1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                  >qi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
Seq. No.
                  143584
Seq. ID
                  LIB3168-029-P1-K1-E9
Method ·
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  639
E value
                  1.0e-66
                  131
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143585
Seq. ID
                  LIB3168-029-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  g2244896
BLAST score
                  810
E value
                  5.0e-87
Match length
                  157
% identity
                  98
NCBI Description
                  (Z97338) similar to HSR201 protein N.tabacum [Arabidopsis
                  thaliana]
                  143586
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-F10
Method
                  BLASTX
NCBI GI.
                  g112681
BLAST score
                  635
E value
                  2.0e-66
Match length
                  145
% identity
                  85
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143587
Seq. ID
                  LIB3168-029-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  620
E value
                  1.0e-64
Match length
                  120
```

```
(U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                   143588
                   LIB3168-029-P1-K1-F2
 Seq. ID
 Method
                   BLASTX
                   q2984353
 NCBI GI
 BLAST score
                   395
                   2.0e-38
 E value
 Match length
                   94
                   74
 % identity
                   (AE000775) hypothetical protein [Aquifex aeolicus]
 NCBI Description
 Seq. No.
                   143589
 Seq. ID
                   LIB3168-029-P1-K1-F3
 Method
                   BLASTX
 NCBI GI
                   g2583125
 BLAST score
                   423
 E value
                   1.0e-41
Match length
                   117
 % identity
                   69
NCBI Description
                   (AC002387) putative transketolase precursor [Arabidopsis
                   thaliana]
                   143590
 Seq. Ño.
 Seq. ID
                   LIB3168-029-P1-K1-F4
Method
                   BLASTX
NCBI GI
                   g4193388
 BLAST score
                   453
                   4.0e-45
 E value
Match length
                   122
 % identity
NCBI Description
                   (AF091455) translationally controlled tumor protein [Hevea
                   brasiliensis]
                   143591
Seq. No.
 Seq. ID
                   LIB3168-029-P1-K1-F6
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   400
                   6.0e-39
E value
Match length
                   110
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143592
                   LIB3168-029-P1-K1-F7
Seq. ID
                   BLASTN
Method
NCBI GI
                   q4454447
BLAST score
                   444
E value
                   0.0e+00
Match length
                   465
% identity
                   98
NCBI Description Arabidopsis thaliana chromosome II BAC F5H14 genomic
```

NCBI GI

E value

BLAST score

Match length

% identity

g131143

3.0e-80

752

156

89

## sequence, complete sequence [Arabidopsis thaliana] 143593 Seq. No. Seq. ID LIB3168-029-P1-K1-F8 Method BLASTX NCBI GI q112681 BLAST score 812 3.0e-87 E value Match length 154 99 % identity NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 cruciferin precursor (CRA1) - Arabidopsis thaliana >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 143594 Seq. ID LIB3168-029-P1-K1-F9 Method BLASTX NCBI GI q4678952 BLAST score 664 E value 7.0e-70 Match length 125 99 % identity NCBI Description (AL049711) putative protein [Arabidopsis thaliana] Seq. No. 143595 LIB3168-029-P1-K1-G10 Seq. ID Method BLASTX NCBI GI g1628583 BLAST score 619 E value 1.0e-64 Match length 120 % identity 99 (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 143596 LIB3168-029-P1-K1-G12 Seq. ID Method BLASTN NCBI GI g2109292 BLAST score 359 E value 0.0e+00Match length 367 99 % identity Arabidopsis thaliana serine/threonine protein kinase mRNA, NCBI Description complete cds Seq. No. 143597 Seq. ID LIB3168-029-P1-K1-G2 Method BLASTX

Seq. ID

143602

LIB3168-029-P1-K1-G7

```
PHOTOSYSTEM I P700 CHLOROPHYLL A APOPROTEIN A1
NCBI Description
                  >qi 72670 pir AlNTP7 photosystem I P700 apoprotein Al -
                  common tobacco chloroplast >gi 11830 emb CAA77352 (Z00044)
                  PSI P700 apoprotein A1 [Nicotiana tabacum]
                  >qi 225198 prf 1211235AC photosystem I P700 apoprotein A1
                  [Nicotiana tabacum]
                  143598
Seq. No.
                  LIB3168-029-P1-K1-G3
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4589428
BLAST score
                  178
                  2.0e-95
E value
                  415
Match length
% identity
                  96
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MFH8, complete sequence
Seq. No.
                  143599
                  LIB3168-029-P1-K1-G4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2494110
BLAST score
                  33
E value
                  8.0e-10
Match length
                  58
                  12
% identity
                  Sequence of BAC T1G11 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143600
Seq. ID
                  LIB3168-029-P1-K1-G5
                  BLASTX
Method
NCBI GI
                  q3334323
BLAST score
                  486
                  5.0e-49
E value
                  129
Match length
% identity
                  75
                  GTP-BINDING PROTEIN SAR1A >gi 1314860 (U56929) Sar1 homolog
NCBI Description
                  [Arabidopsis thaliana] >gi_2104532 gb AAC78700.1
                  (AF001308) SAR1/GTP-binding secretory factor [Arabidopsis
                  thaliana] >gi_2104550 (AF001535) AGAA.4 [Arabidopsis
                  thaliana]
                  143601
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-G6
                  BLASTX
Method
                  q1628583
NCBI GI
BLAST score
                  378
                  2.0e-36
E value
Match length
                  78
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

Seq. ID

143607

LIB3168-029-P1-K1-H11

```
BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  491
                  1.0e-49
E value
Match length
                  101
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143603
Seq. No.
                  LIB3168-029-P1-K1-G8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2828296
BLAST score
                  670
                  1.0e-70
E value
Match length
                  149
                  82
% identity
NCBI Description
                 (AL021687) RNase L inhibitor [Arabidopsis thaliana]
Seq. No.
                  143604
                  LIB3168-029-P1-K1-G9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2262113
BLAST score
                  629
E value
                  8.0e-66
                  148
Match length
                  82
% identity
NCBI Description
                  (AC002343) unknown protein [Arabidopsis thaliana]
                  143605
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g3193301
BLAST score
                  500
E value
                  1.0e-50
Match length
                  150
                  73
% identity
                  (AF069298) Arabidopsis putative chloroplast outer envelope
NCBI Description
                  86-like protein T10P11.19 (GB: AC002330) [Arabidopsis
                  thaliana]
                  143606
Seq. No.
Seq. ID
                  LIB3168-029-P1-K1-H10
Method
                  BLASTX
NCBI GI
                  g2498731
                  764
BLAST score
                  1.0e-81
E value
Match length
                  144
                  99
% identity
                  PROBABLE NADP-DEPENDENT OXIDOREDUCTASE P1
NCBI Description
                  >gi_1362013_pir__S57611 zeta-crystallin homolog -
                  Arabidopsis thaliana >gi 886428 emb CAA89838 (Z49768)
                  zeta-crystallin homologue [Arabidopsis thaliana]
```

```
BLASTN
Method
NCBI GI
                  g1628582
BLAST score
                  44
E value
                  1.0e-15
                  80
Match length
                  89
% identity
NCBI Description
                  Arabidopsis thaliana 12S cruciferin seed storage protein
                  (ATCRU3) gene, complete cds
Seq. No.
                  143608
                  LIB3168-029-P1-K1-H3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  680
                  1.0e-71
E value
Match length
                  153
                  84
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143609
Seq. No.
                  LIB3168-029-P1-K1-H4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  619
                  1.0e-64
E value
Match length
                  120
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143610
                  LIB3168-029-P1-K1-H5
Seq. ID
                  BLASTX
Method
NCBI GI
                  q2129657
BLAST score
                  398
                  1.0e-38
E value
                  109
Match length
                  77
% identity
                  oleosin isoform - Arabidopsis thaliana
NCBI Description
                  >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
                  thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                  [Arabidopsis thaliana]
                  143611
Seq. No.
                  LIB3168-029-P1-K1-H7
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
                  645
BLAST score
                  1.0e-67
E value
                  148
Match length
                  82
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
```

. .

cruciferin precursor (CRB) - Arabidopsis thaliana >gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937 emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana]

High t

Seq. No. Seq. ID LIB3168-029-P1-K1-H8 Method BLASTN g2213606 NCBI GI 392 BLAST score 0.0e + 00E value 464 Match length % identity 96

Genomic sequence for Arabidopsis thaliana BAC F21J9, NCBI Description

complete sequence [Arabidopsis thaliana]

143613 Seq. No.

LIB3168-029-P1-K1-H9 Seq. ID

143612

BLASTX Method NÇBI GI g1628583 BLAST score 642 E value 3.0e-67 123 Match length 100 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

143614 Seq. No.

LIB3168-030-P1-K1-A1 Seq. ID

Method BLASTX NCBI GI g1628583 BLAST score 662 E value 1.0e-69 Match length 128 % identity

(U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description

thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 143615

Seq. ID LIB3168-030-P1-K1-A11

Method BLASTX NCBI GI g1071913 BLAST score 288 E value 7.0e-26 120 Match length % identity

cysteine synthase (EC 4.2.99.8) C precursor, mitochondrial NCBI Description

- spinach >gi\_1066153\_dbj\_BAA07177\_ (D37963) cysteine

synthase [Spinacia oleracea]

143616 Seq. No.

LIB3168-030-P1-K1-A12 Seq. ID

Method BLASTX NCBI GI g112739 BLAST score 425

```
E value
                   6.0e-42
Match length
                   121.
 % identity
                   71
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                   2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143617
Seq. ID
                   LIB3168-030-P1-K1-A3
                   BLASTX
Method
NCBI GI
                   g4115356
                   574
BLAST score
E value
                   2.0e-59
                                                                   4
Match length
                   112
 % identity
                   (AC005957) putative thionin variant protein [Arabidopsis
NCBI Description
                   thaliana]
                   143618
Seq. No.
                   LIB3168-030-P1-K1-A4
Seq. ID
Method
                   BLASTX
NCBI GI .
                   g1628583
BLAST score
                   625
E value
                   2.0e-65
. Match length
                   120
                   100
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143619
                   LIB3168-030-P1-K1-A5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   544
E value
                   7.0e-56
                   137
Match length
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143620
Seq. No.
                   LIB3168-030-P1-K1-A6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
                   562
BLAST score
                   5.0e-58
E value
                   120
Match length
                   88
 % identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
```

>gi 166678 (M37248) 12S storage protein CRB (Arabidopsis

thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana]

143621 Seq. No. Seq. ID LIB3168-030-P1-K1-A7 Method BLASTX

g1628583 NCBI GI 665 BLAST score 4.0e-70 E value · Match length 128 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495 emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

143622 Seq. No.

Seq. ID LIB3168-030-P1-K1-A8

BLASTX Method NCBI GI g2129532 BLAST score 460 5.0e-46 E value Match length 116 % identity

acyl-[acyl-carrier-protein] desaturase (EC 1.14.99.6) -NCBI Description

Arabidopsis thaliana >gi 1107507 emb CAA63746 (X93461) acyl-[acyl-carrier protein] desaturase [Arabidopsis

thaliana]

Seq. No. 143623

Seq. ID LIB3168-030-P1-K1-B1

Method BLASTX NCBI GI g1628583 BLAST score 179 E value 2.0e-13 52 Match length % identity

(U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description

> thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

143624 Seq. No.

Seq. ID LIB3168-030-P1-K1-B10

Method BLASTX NCBI GI g112682 BLAST score 610 E value 1.0e-63 Match length 135 87 % identity

12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510 NCBI Description

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis

thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 143625

LIB3168-030-P1-K1-B11 Seq. ID

Method BLASTX

```
NCBI GI
                  q1628583
BLAST score
                  454
                  2.0e-45
E value
                  117
Match Tength
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143626
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-B12
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  236
                  1.0e-130
E value
Match length
                  240
% identity
                  100
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                   (ESSAII project)
                  143627
Seq. No.
                  LIB3168-030-P1-K1-B2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4757411
BLAST score i\pi
                  408
                  0.0e + 00
E value
Match length
                  412
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MXC7, complete sequence
                  143628
Seq. No.
                  LIB3168-030-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3355477
BLAST score
                  580
E value
                  4.0e-60
Match length
                  135
% identity
                   (AC004218) putative P-glycoprotein, pgpl [Arabidopsis
NCBI Description
                  thaliana]
                  143629
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-B4
Method
                  BLASTX
NCBI GI
                  g112682
                  592
BLAST score
                  1.0e-61
E value
Match length
                  125
% identity
                  89
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
```

BLAST score

Match length

E value

280 1.0e-156

304

LIB3168-030-P1-K1-B5 Seq. ID Method BLASTX NCBI GI q1628583 BLAST score 195 E value 6.0e-52 Match length 137 80 % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi 2842495\_emb\_CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 143631 Seq. No. LIB3168-030-P1-K1-B6 Seq. ID Method BLASTN NCBI GI q1699056 BLAST score 361 0.0e+00E value Match length 373 % identity Arabidopsis thaliana 27 kDa unknown protein mRNA, complete NCBI Description Seq. No. 143632 LIB3168-030-P1-K1-B7 Seq. ID Method BLASTX NCBI GI g112682 BLAST score 569 8.0e-59 E value Match length 133 % identity NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510 cruciferin precursor (CRB) - Arabidopsis thaliana >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed storage protein [Arabidopsis thaliana] 143633 Seq. No. Seq. ID LIB3168-030-P1-K1-B9 Method BLASTX q112681 NCBI GI BLAST score 564 E value 3.0e-58 Match length 132 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana] 143634 Seq. No. LIB3168-030-P1-K1-C10 Seq. ID Method BLASTN NCBI GI q4106339

```
% identity
NCBI Description
                  Arabidopsis thaliana protein phosphatase 2A regulatory
                  subunit isoform B' delta mRNA, complete cds
Seq. No.
                  143635
Seq. ID
                  LIB3168-030-P1-K1-C11
Method
                  BLASTX
NCBI GI
                  g2829896
BLAST score
                  296
E value
                  8.0e-27
Match length
                  105
% identity
                  56
NCBI Description
                  (ACO02311) highly similar to auxin-regulated protein GH3,
                  gp X60033 18591 [Arabidopsis thaliana]
                  143636
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  g1171978
BLAST score
                  322
E value
                  7.0e-30
Match length
                  100
% identity
                  63
                  POLYADENYLATE-BINDING PROTEIN 2 (POLY(A) BINDING PROTEIN 2)
NCBI Description
                  (PABP 2) >gi 304109 (L19418) poly(A)-binding protein
                  [Arabidopsis thaliana] >gi 2911051 emb CAA17561 (AL021961)
                  poly(A)-binding protein [Arabidopsis thaliana]
Seq. No.
                  143637
Seq. ID
                  LIB3168-030-P1-K1-C2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein. [Arabidopsis thaliana]
                  143638
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-C3
Method
                  BLASTX
                  g542157
NCBI GI
BLAST score
                  550
                  1.0e-56
E value
Match length
                  126
                  83
% identity
NCBI Description ribosomal 5S RNA-binding protein - Rice
Seq. No.
                  143639
Seq. ID
                  LIB3168-030-P1-K1-C4
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  504
E value
                  3.0e-51
Match length
                  136
```

```
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936 emb CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143640
                  LIB3168-030-P1-K1-C5
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  669
E value
                  2.0e-70
                  131
Match length
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143641
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  156
E value
                  2.0e-10
                  72
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143642
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-D1
                  BLASTN
Method
NCBI GI
                  g1209632
BLAST score
                  158
E value
                  1.0e-83
                  266
Match length
                  95
% identity
NCBI Description
                  Arabidopsis thaliana pattern-formation (GNOM) gene,
                  complete cds
                  143643
Seq. No.
                  LIB3168-030-P1-K1-D10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
                  540
BLAST score
                  2.0e-55
E value
                  131
Match length
                  80
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
```

precursor [Arabidopsis thaliana]

```
Seq. No.
                   143644
                  LIB3168-030-P1-K1-D11
Seq. ID
                  BLASTX
Method
NCBI GI
                   g4191794
BLAST score
                   383
E value
                   5.0e-37
Match length
                   71
% identity
                   (AC005917) putative zinc finger-like protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                   143645
                  LIB3168-030-P1-K1-D12
Seq. ID
                  BLASTN
Method
NCBI GI
                   g2262135
                   398
BLAST score
E value
                   0.0e+00
                   406
Match length
                   100
% identity
                  Arabidopsis thaliana BAC T10P11 from chromosome IV, near 15
NCBI Description
                   cM, complete sequence
                   143646
Seq. No.
                  LIB3168-030-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI -
                  g112741
                   691
BLAST score
E value
                   4.0e-73
                  128
Match length
                   100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143647
                  LIB3168-030-P1-K1-D4
Seq. ID
                  BLASTX
Method
NCBI GI
                   g1628583
BLAST score
                   621
E value
                   6.0e-65
Match length
                   120
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                   143648
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-D5
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  314
E value
                   6.0e-29
```

BLAST score

```
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143649
                  LIB3168-030-P1-K1-D6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204299
BLAST score
                  551
E value
                  1.0e-56
Match length
                  111
                  98
% identity
                   (AC003027) lcl_prt_seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  143650
Seq. ID
                  LIB3168-030-P1-K1-D7
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  118
E value
                  6.0e-06
                  72
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143651
Seq. No.
                  LIB3168-030-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  542
E value
                  1.0e-55
                  137
Match length -
                  79
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143652
Seq. No.
                  LIB3168-030-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1491615
                  606
BLAST score
E value
                  4.0e-63
                  136
Match length
                  90
% identity
                  (X99923) male sterility 2-like protein [Arabidopsis
NCBI Description
                  'thaliana]
                  143653
Seq. No.
                  LIB3168-030-P1-K1-E11
Seq. ID
Method
                  BLASTX
                  g1169598
NCBI GI
```

E value

2.0e-72

```
9.0e-43
E value
Match length
                  91
                  87
% identity
                  OMEGA-6 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                  (DELTA-12 DESATURASE) >gi_438451 (L26296) delta-12
                  desaturase [Arabidopsis thaliana]
                  143654
Seq. No.
                  LIB3168-030-P1-K1-E12
Seq. ID
                  BLASTX
Method
NGBI GI
                  q1628583
BLAST score
                  335
E value
                  2.0e-31
Match length
                  84
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143655
Seq. ID
                  LIB3168-030-P1-K1-E2
                  BLASTX
Method
NCBI GI
                  g21112
BLAST score
                  277
E value
                  1.0e-24
                  59
Match length
% identity
NCBI Description
                  (X59805) cruciferin [Raphanus sativus]
                  143656
Seq. No.
                  LIB3168-030-P1-K1-E3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  620
                  8.0e-65
E value
                  120
Match length
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143657
                  LIB3168-030-P1-K1-E4
Seq. ID
Method
                  BLASTN
NCBI GI
                  q457401
BLAST score
                  143
                  1.0e-74
E value
                  143
Match length
                  100
% identity
NCBI Description Arabidopsis thaliana mRNA for MAP kinase, complete cds
                  143658
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-E5
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  686
```

BLAST score

```
133
Match length
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143659
Seq. No.
                  LIB3168-030-P1-K1-E6
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4371278
BLAST score
                  365
                  0.0e + 00
E value
Match length
                  373
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC T2N18 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  143660
Seq. No.
                  LIB3168-030-P1-K1-F1
Seq. ID
                  BLASTN
Method
                  q166612
NCBI GI
BLAST score
                  52
E value
                  3.0e-21
Match length
                  64
% identity
                  A.thaliana at2S4 gene encoding albumin 2S subunit 4,
NCBI Description
                  complete cds
Seq. No.
                  143661
Seq. ID
                  LIB3168-030-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  g1628583
                  687
BLAST score
                  1.0e-72
E value
Match length
                  135
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143662
                  LIB3168-030-P1-K1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  619
E value
                  1.0e-64
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143663
Seq. No.
                  LIB3168-030-P1-K1-F2
Seq. ID
                  BLASTX
Method
                  g2739366
NCBI GI
```

```
E value
                  3.0e-19
Match length
                  77
% identity
                  51
                  (AC002505) SF16 like protein [Arabidopsis thaliana]
NCBI Description
                  143664
Seq. No.
                  LIB3168-030-P1-K1-F3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
                  555
BLAST score
                  4.0e-57
E value 🚲
Match length
                  133
                  80
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143665
Seq. No.
                  LIB3168-030-P1-K1-F4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
                  713
BLAST score
                  1.0e-75
E value
Match length
                  135
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143666
Seq. ID
                  LIB3168-030-P1-K1-F5
                  BLASTX
Method
NCBI GI
                  g112682
                  578
BLAST score
                  7.0e-60
E value
Match length
                  135
                  81
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143667
Seq. ID
                  LIB3168-030-P1-K1-F6
                  BLASTX
Method
NCBI GI
                  g4586249
BLAST score
                  457
                  1.0e-45
E value
Match length
                  135
% identity
                  (AL049640) putative pollen surface protein [Arabidopsis
NCBI Description
                  thaliana]
```

```
LIB3168-030-P1-K1-F8
Seq. ID
                   BLASTX
Method
                   g2736155
NCBI GI
                   505
BLAST score
                   3.0e-51
E value
Match length
                   118
                   86
% identity
NCBI Description
                   (AF022082) sulfolipid biosynthesis protein [Arabidopsis
                   thaliana] >gi_3688184_emb_CAA21212_ (AL031804) sulfolipid
                   biosynthesis protein SQD1 [Arabidopsis thaliana]
                   143669
Seq. No.
Seq. ID
                   LIB3168-030-P1-K1-F9
Method
                   BLASTX
                   g2129657
NCBI GI
                   333
BLAST score
                   4.0e-31
E value
                   99
Match length
                   73
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   143670
                   LIB3168-030-P1-K1-G10
Seq. ID
Method
                   BLASTX
NCBI GI
                   q4006924
BLAST score
                   726
E value
                   3.0e-77
Match length
                   135
% identity
                   100
                   (Z99708) beta-galactosidase like protein [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   143671
Seq. ID
                   LIB3168-030-P1-K1-G12
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   710
E value
                   2.0e-75
Match length
                   135
                   99
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   tha\overline{\text{liana}} >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143672
Seq. ID
                   LIB3168-030-P1-K1-G2
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   606
E value
                   4.0e-63
Match length
                   120
```

97

% identity

NCBI Description

```
(U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143673
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-G3
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  680
                  8.0e-72
E value
                  126
Match length
% identity
                  100
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143674
Seq. No.
                  LIB3168-030-P1-K1-G4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4006924
                  259
BLAST score
                  2.0e-22
E value
Match length
                  67
                  76
% identity
NCBI Description
                  (Z99708) beta-galactosidase like protein [Arabidopsis
                  thaliana]
                  143675
Seq. No.
                  LIB3168-030-P1-K1-G5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g543841
BLAST score
                  534
                  1.0e-54
E value
                  106
Match length
% identity
                  97
                  ADP-RIBOSYLATION FACTOR 1 >gi_322518_pir__S28875
NCBI Description
                  ADP-ribosylation factor 1 - Arabidopsis thaliana >gi_166586
                  (M95166) ADP-ribosylation factor [Arabidopsis thaliana]
                  >gi 2275195 (AC002337) ADP-ribosylation factor [Arabidopsis
                  thaliana] >gi 4630747 gb AAD26597.1_AC007236_2 (AC007236)
                  ADP-ribosylation factor [Arabidopsis thaliana]
Seq. No.
                  143676
                  LIB3168-030-P1-K1-G6
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4165340
                  382
BLAST score
                  0.0e+00
E value
                  407
Match length
                  82
% identity
                  Arabidopsis thaliana chromosome I BAC F11M15 genomic
```

sequence, complete sequence [Arabidopsis thaliana]

```
143677
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-G7
Method
                  BLASTX
NCBI GI
                  g1628583
                  513
BLAST score
                  2.0e-52
E value
Match length
                  104
% identity
                  96
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin' seed storage protein [Arabidopsis thaliana]
                  143678
Seq. No.
                  LIB3168-030-P1-K1-G8
Seq. ID
                  BLASTX
Method
                  g1174779
NCBI GI
BLAST score
                  396
                  1.0e-38
E value
                  84
Match length
                  93
% identity
                  TRYPTOPHAN SYNTHASE BETA CHAIN 2 PRECURSOR >gi 166894
NCBI Description
                   (M81620) tryptophan synthase beta-subunit [Arabidopsis
                  thaliana] >gi 4490703 emb CAB38837.1 (AL035680) tryptophan
                  synthase beta-subunit (TSB2) [Arabidopsis thaliana]
                  143679
Seq. No.
                  LIB3168-030-P1-K1-H1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  524
E value
                  2.0e-53
Match length
                  134
                  78
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143680
Seq. No.
                  LIB3168-030-P1-K1-H11
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  727
BLAST score
                  2.0e-77
E value
                  141
Match length
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143681
Seq. No.
                  LIB3168-030-P1-K1-H3
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  620
E value
                  8.0e-65
Match length
                  126
```

94

% identity

```
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143682
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-H4
Method
                  BLASTN
NCBI GI
                  g3128136
BLAST score
                  285
E value
                  1.0e-159
                 · 350
Match length
% identity
                  97
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K1F13, complete sequence [Arabidopsis thaliana]
                  143683
Seq. No.
                  LIB3168-030-P1-K1-H6
Seq. ID
Method
                  BLASTX
                  g3935150
NCBI GI
BLAST score
                  289
E value
                   6.0e-26
                  104
Match length
                   64
% identity
                   (AC005106) T25N20.14 [Arabidopsis thaliana]
NCBI Description
                  143684
Seq. No.
                  LIB3168-030-P1-K1-H7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2660673
BLAST score
                  244
E value
                   1.0e-20
Match length
                  112
% identity
                   25
                   (AC002342) unknown protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143685
Seq. ID
                  LIB3168-030-P1-K1-H8
                  BLASTX
Method
NCBI GI
                  q112681
BLAST score
                   654
                   9.0e-69
E value
Match length
                  1-34
                   93
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143686
Seq. No.
Seq. ID
                  LIB3168-030-P1-K1-H9
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  656
E value
                  5.0e-69
Match length
                  135
% identity
                   92
```

```
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  tha\overline{\text{liana}} >gi_808937 emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143687
Seq. ID
                  LIB3168-031-P1-K1-A1
Method
                  BLASTX
NCBI GI
                  q112741
                  667
BLAST score
E välue
                  3.0e-70
                  128
Match length
                  98
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143688
Seq. No.
                  LIB3168-031-P1-K1-A10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q119143
BLAST score
                  271
                  1.0e-41
E value
Match length
                  108
                  85
% identity
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
NCBI Description
                  >gi_81606_pir__S06724 translation elongation factor eEF-1
                  alpha chain - Arabidopsis thaliana >gi 295788 emb CAA34453
                  (X16430) elongation factor 1-alpha [Arabidopsis thaliana]
                  >qi 1369927 emb CAA34454 (X16431) elongation factor
                  1-alpha [Arabidopsis thaliana] >gi 1369928 emb CAA34455
                  (X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                  >qi 1532172 (U63815) EF-lalpha-Al [Arabidopsis thaliana]
                  >gi 1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                  >gi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
Seq. No.
                  143689
Seq. ID
                  LIB3168-031-P1-K1-A11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  543
                  1.0e-56
E value
                  117
Match length
                  92
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

 Seq. No.
 143690

 Seq. ID
 LIB3168-031-P1-K1-A12

 Method
 BLASTN

 NCBI GI
 q3985958

NCBI GI

q112741

```
BLAST score
                  132
E value
                  5.0e-68
Match length
                  405
% identity
                  100
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MZN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143691
Seq. ID
                  LIB3168-031-P1-K1-A3
Method .
                  BLASTN
NCBI GI
                  q4199934
BLAST score
                  70
E value
                  3.0e - 31
Match length
                  106
                  94
% identity
NCBI Description
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  143692
                  LIB3168-031-P1-K1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  a1628583
BLAST score
                  200
                  2.0e-15
E value
                  74
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143693
Seq. No.
                  LIB3168-031-P1-K1-A5
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2351071
BLAST score
                  381
                  0.0e + 00
E value
Match length
                  416
% identity
                  97
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MVA3, complete sequence [Arabidopsis thaliana]
                  143694
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-A6
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  436
                  3.0e-43
E value
                  108
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-A7
Method
                  BLASTX
```

```
BLAST score
                  577 .
E value
                  9.0e-60
Match length
                  116
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143696
                  LIB3168-031-P1-K1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  559
E value
                  1.0e-59
Match length
                  130
                  92
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143697
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-A9
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  450
E value
                  8.0e-45
Match length
                  127
% identity
                  72
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                 2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  143698
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-B10
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  598
                  3.0e-62
E value
Match length
                  139
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
```

Match length

```
LIB3168-031-P1-K1-B11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  128
E value
                  1.0e-65
Match length
                  273
                  57
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                  (ESSAII project)
Seq. No.
                  143700
                  LIB3168-031-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3335169
BLAST score
                  646
E value
                  8.0e-68
Match length
                  125
% identity
                  (AF067857) embryo-specific protein 1 [Arabidopsis thaliana]
NCBI Description
                  >gi 4455197 emb CAB36520.1 (AL035440) embryo-specific
                  protein 1 (ATS1) [Arabidopsis thaliana]
Seq. No.
                  143701
                  LIB3168-031-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  695
E value
                  1.0e-73
Match length
                  135
                  98
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143702
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-B4
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  541
E value
                  2.0e-55
Match length
                  133
% identity
                  80
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                           143703
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-B5
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  551
E value
                  1.0e-56
```

```
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143704
Seq. No.
                  LIB3168-031-P1-K1-B6
Seq. ID
Method
                  BLASTN
NCBI GI .
                  q4538895
BLAST score
                  291
                  1.0e-163
E value
Match length
                  319
% identity
                  98
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F17A8
NCBI Description
                  (ESSA project)
Seq. No.
                  143705
                  LIB3168-031-P1-K1-B7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  506
E value
                  2.0e-51
Match length
                  131
                  77
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143706
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-B8
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  631
E value
                  4.0e-66
Match length
                  133
                  89
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143707
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  652
                  1.0e-68
E value
Match length
                  131
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  143708
Seq. ID
                  LIB3168-031-P1-K1-C1
Method
                 BLASTN
NCBI GI
                  q2623294
BLAST score
                  353
E value
                  0.0e + 00
Match length
                  415
                  98
% identity
                  Arabidopsis thaliana chromosome II BAC T20B5 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  143709
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-C11
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  618
E value
                  1.0e-64
Match length
                  126
                  96
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143710
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  703
E value
                  2.0e-74
Match length
                  140
% identity
                  95
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143711
Seq. No.
                  LIB3168-031-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  710
E value
                  2.0e-75
Match length
                  133
% identity
                  99
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
```

```
Seq. ID
                  LIB3168-031-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  580
E value
                   4.0e-60
Match length
                  135
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143713
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-C4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  529
                   4.0e-54
E value
                  139
Match length
% identity
                  76
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143714
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  g4138179
BLAST score
                  228
E value
                  2.0e-19
Match length
                  63
                  75
% identity
NCBI Description
                   (AJ223969) elongation factor 1 alpha subunit [Malus
                  domestica]
                  143715
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  384
                  4.0e-46
E value
Match length
                  104
% identity
                  92
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143716
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  530
                  3.0e-54
E value
Match length
                  139
% identity
                  77
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

BLAST score

588

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
143717
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  q112681
                  523
BLAST score
E value
                  2.0e-53
Match length
                  133
                  .78
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936 emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143718
Seq. ID
                  LIB3168-031-P1-K1-D1
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  496
E value
                  4.0e-57
Match length
                  119
                  91
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143719
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-D11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  505
E value
                  2.0e-51
Match length
                  111 .
                  88
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143720
Seq. ID
                  LIB3168-031-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  g4204298
BLAST score
                  533
E value
                  1.0e-54
                  120
Match length
% identity
                  86
                  (AC003027) lcl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  143721
Seq. ID
                  LIB3168-031-P1-K1-D2
Method
                  BLASTX
NCBI GI
                  g112737
```

E value

2.0e-66

```
5.0e-61
E value
                  140
Match length
% identity
                  81
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (224745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  143722
Seq. No.
                  LIB3168-031-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  363
E value
                  1.0e-34
                  70
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143723
                  LIB3168-031-P1-K1-D7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112739
BLAST score
                  421
E value
                  2.0e-41
Match length
                  127
% identity
                  70
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143724
Seq. ID
                  LIB3168-031-P1-K1-D8
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  475
E value
                  4.0e-48
Match length
                  98
                  95
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                 143725
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-E1
                  BLASTX
Method
NCBI GI
                  g1742951
BLAST score
                  634
```

Method

BLASTX

```
139
Match length
                  93
% identity
NCBI Description
                  (Y09817) Ca2+-ATPase [Arabidopsis thaliana]
                  143726
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-E12
                  BLASTX
Method
                  q1628583
NCBI GI
BLAST score
                  586
                  8.0e-61
E value
Match length
                  125
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143727
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-E2
Method
                  BLASTX
NCBI GI
                  g231587
BLAST score
                  490
                  1.0e-49
E value
Match length
                  134
% identity
                  73
                  ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR
NCBI Description
                  >qi 283001 pir S25304 H+-transporting ATP synthase (EC
                  3.6.1.34) beta chain precursor, mitochondrial - rice
                  >gi 218147 dbj BAA01372 (D10491) mitochondrial F1-ATPase
                  [Oryza sativa]
                  143728
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-E4
                  BLASTX
Method
NCBI GI
                  g1628583
                  45
BLAST score
E value
                  3.0e - 34
                  86
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143729
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-E5
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  290
                  3.0e-26
E value
Match length
                  64
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143730
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-E6
```

Method

NCBI GI

BLASTN g2842474

```
NCBI GI
                    q112682
 BLAST score
                    438
                    2.0e-43
 E value
                    112
 Match length
 % identity
                    76
 NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    143731
                    LIB3168-031-P1-K1-E7
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g112681
 BLAST score
                    557
 E value
                    2.0e-57
                    119
 Match length
- % identity
                    91
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
 NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    143732
 Seq. ID
                    LIB3168-031-P1-K1-E8
                    BLASTX
 Method
 NCBI GI
                    g112682
 BLAST score
                    323
 E value
                    5.0e-30
 Match length
                    115
 % identity
                    59
 NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    143733
 Seq. ID
                    LIB3168-031-P1-K1-E9
 Method
                    BLASTX
 NCBI GI
                    g585165
 BLAST score
                    261
 E value
                    1.0e-22
                    76
 Match length
 % identity
                    71
                    GLUCOSE-6-PHOSPHATE 1-DEHYDROGENASE, CYTOPLASMIC ISOFORM
 NCBI Description
                    (G6PD) >gi 2129985 pir S60287 glucose-6-phosphate
                    1-dehydrogenase (EC 1.1.1.49) - potato
                    >gi_471345_emb_CAA52442_ (X74421) glucose-6-phosphate
1-dehydrogenase [Solanum tuberosum]
                    143734
 Seq. No.
 Seq. ID
                    LIB3168-031-P1-K1-F1
```

```
BLAST score
                  188
                  1.0e-101
E value
                  312
Match length
                  90
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
                  143735
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-F10
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  658
                  3.0e-69
E value
                  131
Match length
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143736
Seq. No.
                  LIB3168-031-P1-K1-F11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112741
BLAST score
                  699
                  5.0e-74
E value
Match length
                  132
                  98
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201 emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143737
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-F12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143738
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-F2
                  BLASTX
Method
NCBI GI
                  q1628583
                  554
BLAST score
E value
                  4.0e-57
                  117
Match length
                  92
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

## cruciferin seed storage protein [Arabidopsis thaliana]

```
143739
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-F3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  512
E value
                  3.0e-52
Match length
                  102
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143740
Seq. ID
                  LIB3168-031-P1-K1-F4
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  564
E value
                  3.0e-58
Match length
                  132 -
                  83
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                storage protein [Arabidopsis thaliana]
Seq. No.
                  143741
Seq. ID
                  LIB3168-031-P1-K1-F5
                  BLASTN
Method
                  g4757405
NCBI GI
BLAST score
                  65
E value
                  3.0e-28
Match length
                  177
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MOJ10, complete sequence
                  143742
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  558
E value
                  2.0e-57
Match length
                  143
                  78
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143743
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-F7
Method
                  BLASTX
NCBI GI
                  g585165
BLAST score
                  283
E value
                  3.0e-25
```

```
Match length
                  79
                  71
% identity
                  GLUCOSE-6-PHOSPHATE 1-DEHYDROGENASE, CYTOPLASMIC ISOFORM
NCBI Description
                  (G6PD) >gi 2129985 pir S60287 glucose-6-phosphate
                  1-dehydrogenase (EC 1.1.1.49) - potato
                  >gi_471345_emb_CAA52442_ (X74421) glucose-6-phosphate
                  1-dehydrogenase [Solanum tuberosum]
                  143744
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-F8
Method ·
                  BLASTN
NCBI GI
                  q16472
BLAST score
                  257
                  1.0e-142
E value
Match length
                  360
% identity
                  93
NCBI Description
                  A.thaliana rRNA repeat unit, most frequent IGR type
Seq. No.
                  143745
                  LIB3168-031-P1-K1-F9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3915866
BLAST score
                  314
                  4.0e-29
E value
Match length
                  85
% identity
                  GLUTAMINYL-TRNA SYNTHETASE (GLUTAMINE--TRNA LIGASE) (GLNRS)
NCBI Description
                  >gi_2995455_emb_CAA62901_ (X91787) tRNA-glutamine
                  synthetase [Lupinus luteus]
Seq. No.
                  143746
Seq. ID
                  LIB3168-031-P1-K1-G1
Method
                  BLASTN
NCBI GI
                  g2924655
BLAST score
                  133
E value
                  1.0e-68
Match length
                  435
% identity
                  96
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MKD10, complete sequence [Arabidopsis thaliana]
                  143747
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-G10
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  473
E value
                  1.0e-47
Match length
                  117
                  79
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_ S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143748
Seq. ID
                  LIB3168-031-P1-K1-G11
```

3

```
BLASTN
Method
NCBI GI
                  g3962376
BLAST score
                  142
                  2.0e-74
E value
Match length
                  146
% identity
                  99
                  Arabidopsis thaliana mRNA for heat shock protein
NCBI Description
                  143749
Seq. No.
                  LIB3168-031-P1-K1-G12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g82220
BLAST score
                  610
                  1.0e-63
E value
                  137
Match length
% identity
                  hypothetical protein 581 - common tobacco chloroplast
NCBI Description
                  >gi 225240 prf 1211235BY ORF 581 [Nicotiana tabacum]
                  143750
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-G3
Method
                  BLASTX
NCBI GI
                  g2129657
BLAST score
                  387
E value
                  2.0e-37
                                             Match length
                  112
                  74
% identity
                  oleosin isoform - Arabidopsis thaliana
NCBI Description
                  >gi 987014 emb CAA90877 (Z54164) oleosin [Arabidopsis
                  thaliana] >gi 987016 emb CAA90878_ (Z54165) oleosin
                  [Arabidopsis thaliana]
                  143751
Seq. No.
                  LIB3168-031-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  550
E value
                  1.0e-56
                  137
Match length
% identity
                  79
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143752
                  LIB3168-031-P1-K1-G6
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  223
E value
                  1.0e-23
Match length
                  76
                  .80
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
```

cruciferin precursor (CRA1) - Arabidopsis thaliana
>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed storage protein [Arabidopsis thaliana]

Seq. No. 143753

Seq. ID LIB3168-031-P1-K1-G7

Method BLASTN
NCBI GI g515373
BLAST score 264
E value 1.0e-147
Match length 276
% identity 99

NCBI Description Arabidopsis thaliana chloroplast DNA

Seq. No. 143754

Seq. ID LIB3168-031-P1-K1-G9

Method BLASTX
NCBI GI g112681
BLAST score 217
E value 4.0e-18
Match length 63
% identity 68

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi\_808936\_emb\_CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 143755

Seq. ID LIB3168-031-P1-K1-H1

Method BLASTX
NCBI GI g112743
BLAST score 671
E value 9.0e-71
Match length 129
% identity 95

NCBI Description 2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68856\_pir\_\_NWMU4 2S albumin 4 precursor - Arabidopsis thaliana >gi\_166617 (M22033) albumin 2S subunit 4 precursor [Arabidopsis thaliana] >gi\_395202\_emb\_CAA80869\_

(Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]

>gi\_4490713\_emb\_CAB38847.1\_ (AL035680) NWMU4-2S albumin 4

precursor [Arabidopsis thaliana]

Seq. No. 143756

Seq. ID LIB3168-031-P1-K1-H10

Method BLASTN
NCBI GI g1785619
BLAST score 407
E value 0.0e+00
Match length 415
% identity 100

NCBI Description A.thaliana ORFb, ORFc and AtPK2324 gene

Seq. No. 143757

Seq. ID LIB3168-031-P1-K1-H11

```
BLASTX
Method
NCBI GI
                  g112741
BLAST score
                  697
                  8.0e-74
E value
Match length
                  134
% identity
                  96
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  143758
Seq. No.
                  LIB3168-031-P1-K1-H12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  65
                  9.0e-29
E value
                  73
Match length
% identity
                  97
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                  (ESSAII project)
                  143759
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-H2
                  BLASTX
Method
NCBI GI
                  g4204298
BLAST score
                  264
                  4.0e-41
E value
Match length
                  105
% identity
NCBI Description
                  (AC003027) 1cl prt seq No definition line found
                  [Arabidopsis thaliana]
                  143760
Seq. No.
Seq. ID
                  LIB3168-031-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  92
                  8:0e-27
E value
Match length
                  88
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143761
Seq. ID
                  LIB3168-031-P1-K1-H5
Method
                  BLASTX
NCBI GI
                  g112.737
                  398
BLAST score
E value
                  7.0e-39
Match length
                  111
% identity
                  72
NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
```

```
PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
1 precursor [Arabidopsis thaliana] >gi 395204 emb_CAA80870
(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
>qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
precursor [Arabidopsis thaliana]
```

143762 Seq. No. LIB3168-031-P1-K1-H6 Seq. ID Method BLASTX NCBI GI g112682 BLAST score 337 7.0e-32 E value Match length 83

77

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>qi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 143763

% identity

LIB3168-031-P1-K1-H7 Seq. ID

Method BLASTX NCBI GI g1628583 BLAST score 359 E value 2.0e-34 Match length 96 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 143764

LIB3168-031-P1-K1-H9 Seq. ID

Method BLASTX NCBI GI g112682 BLAST score 444 2.0e-44 E value Match length 101 % identity 82

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>qi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

143765 Seq. No.

Seq. ID LIB3168-032-P1-K1-A1

BLASTX Method NCBI GI q4558669 BLAST score 625 2.0e-65 E value Match length 125 % identity

(AC007063) putative vanadate resistance protein NCBI Description

[Arabidopsis thaliana]

% identity

73

```
Seq. No.
                  143766
Seq. ID
                  LIB3168-032-P1-K1-A11
                  BLASTX
Method
                  g1628583
NCBI GI
                  82
BLAST score
                  1.1e-01
E value
Match length
                  77
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143767
Seq. ID
                  LIB3168-032-P1-K1-A3
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                   633
                   2.0e-66
E value
Match length
                   125
% identity
                   98
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143768
                  LIB3168-032-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4033349
BLAST score
                  596
E value
                   5.0e-62
Match length
                  130
% identity
NCBI Description
                   (AJ223496) phosphoenolpyrovate carboxylase [Brassica
                  juncea]
Seq. No.
                  143769
                  LIB3168-032-P1-K1-A7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q82051
BLAST score
                  290
E value
                   4.0e-26
Match length
                  110
% identity
NCBI Description
                  lipid body-associated membrane protein - carrot
                  >qi 259453 bbs 117620 (S47635) lipid body membrane
                  protein=DC 59 [Daucus carota=carrots, var Juwarot, Peptide,
                  180 aa] [Daucus carota]
Seq. No.
                  143770
Seq. ID
                  LIB3168-032-P1-K1-A8
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  451
E value
                  5.0e-45
Match length
                  132
```

```
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143771
Seq. ID
                  LIB3168-032-P1-K1-B1
                   BLASTX
Method
NCBI GI ·
                   g1769895
BLAST score
                   401
E value
                   4.0e-39
                   77
Match length
                   99
% identity
NCBI Description (X96598) Calb protein [Arabidopsis thaliana]
                   143772
Seq. No.
                   LIB3168-032-P1-K1-B10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g119143
BLAST score
                   592
E value
                   2.0e-66
                  131
Match length
                   96
% identity
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
NCBI Description
                   >gi_81606_pir__S06724 translation elongation factor eEF-1
alpha chain - Arabidopsis thaliana >gi_295788_emb_CAA34453_
                   (X16430) elongation factor 1-alpha [Arabidopsis thaliana]
                   >gi_1369927_emb_CAA34454_ (X16431) elongation factor
                   1-alpha [Arabidopsis thaliana] >gi_1369928_emb_CAA34455
                   (X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                   >gi 1532172 (U63815) EF-lalpha-A1 [Arabidopsis thaliana]
                   >qi 1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                   >gi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
Seq. No.
                   143773
Seq. ID
                   LIB3168-032-P1-K1-B12
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   564
                   3.0e-58
E value
                   132
Match length
                                          17,51
                   81
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   143774
Seq. ID
                   LIB3168-032-P1-K1-B2
                   BLASTX
Method
                   q1628583
NCBI GI
BLAST score
                   49
E value
                   2.0e-69
Match length
                   138
% identity
                   97
```

Method

NCBI GI

BLASTX

q1345840

```
(U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143775
Seq: No.
Seq. ID
                  LIB3168-032-P1-K1-B3
                  BLASTX
Method
                  g112682
NCBI GI
                  757
BLAST score
                  8.0e-81
E value
Match length
                  143
% identity
                  100
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143776
Seq. No.
                  LIB3168-032-P1-K1-B5
Seq. ID
                  BLASTX
Method
                  q2462756
NCBI GI
BLAST score
                  411
                  3.0e-40
E value
                  94
Match length
% identity
NCBI Description (AC002292) putative receptor kinase [Arabidopsis thaliana]
Seq. No.
                  143777
Seq. ID
                  LIB3168-032-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  584
E value
                  1.0e-60
                  135
Match length
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{1}iana] >gi_808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143778
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-B7
Method
                  BLASTN
NCBI GI
                  q2342673
BLAST score
                  301
                  1.0e-169
E value
Match length
                  316
% identity
                  99
                  Sequence of BAC F7G19 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
                  143779
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-C1
```

BLAST score

E value

232

9.0e-51

```
BLAST score
                  280
E value
                   3.0e-45
Match length
                  134
% identity
NCBI Description
                  CRUCIFERIN BNC1 PRECURSOR (11S GLOBULIN) (12S STORAGE
                  PROTEIN) >gi 762919 emb CAA41984 (X59294) cruciferin
                  storage protein [Brassica napus]
                  143780
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-C10
Method
                  BLASTX
NCBI GI
                  g416652
BLAST score
                  251
E value
                  2.0e-21
Match length
                   97
% identity
NCBI Description
                  PROBABLE GLUTATHIONE S-TRANSFERASE (AUXIN-INDUCED PROTEIN
                  PCNT107) >gi_19793_emb_CAA39707 (X56266) auxin-induced
                  protein [Nicotiana tabacum]
                  143781 -
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-C11
Method
                  BLASTN
NCBI GI
                  g3789706
BLAST score
                  227
E value
                  1.0e-124
Match length
                  408
% identity
                  100
                  Arabidopsis thaliana chromosome 1 BAC F15K9 sequence,
NCBI Description
                  complète sequence [Arabidopsis thaliana]
                  143782
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-C3
                  BLASTX
Method
                  q4006881
NCBI GI
BLAST score
                  522
                  3.0e-53
E value
Match length
                  132
% identity
                  59
                  (Z99707) putative protein [Arabidopsis thaliana]
NCBI Description
                  143783
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  q3287679
BLAST score
                  688
                  9.0e-73
E value
Match length
                  139
% identity
                  (AC003979) T22J18.6 [Arabidopsis thaliana]
NCBI Description
                  143784
Seq. No.
                  LIB3168-032-P1-K1-C7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4006834
```

```
Match length
                  107
% identity
                  99
                  (AC005970) enoyl-ACP reductase (enr-A) [Arabidopsis
NCBI Description
Seq. No.
                  143785
                  LIB3168-032-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  476
E value
                  7.0e-48
                  105
Match length
% identity
                  86
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143786
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-D1
Method
                  BLASTX
NCBI GI
                  g135858
BLAST score
                  497
E value
                  3.0e-50
Match length
                  138
                  72
% identity
                  TONOPLAST INTRINSIC PROTEIN, ALPHA (ALPHA TIP)
NCBI Description
                  >gi_99760_pir__S22201 tonoplast intrinsic protein alpha -
                  Arabidopsis thaliana >gi_16182_emb_CAA45114_ (X63551)
                  tonoplast intrinsic protein: alpha-TIP(Ara) [Arabidopsis
                  thaliana] >gi 166623 (M84343) tonoplast intrinsic protein
                  [Arabidopsis thaliana] >gi 445128 prf 1908432A tonoplast
                  intrinsic protein alpha [Arabidopsis thaliana]
                  143787
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-D10
Method
                  BLASTX
NCBI GI
                  g266693
BLAST score
                  245
E value
                  8.0e-21
Match length
                  121
% identity
NCBI Description
                  OLEOSIN >gi 282875 pir S22538 oleosin - Arabidopsis
                  thaliana >gi 16405 emb CAA44225 (X62353) oleosin
                  [Arabidopsis thaliana] >gi 4455257 emb CAB36756.1
                  (AL035523) oleosin, 18.5K [Arabidopsis thaliana]
                  143788
Seq. No.
                  LIB3168-032-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g82051
BLAST score
                  369
E value
                  2.0e-35
Match length
                  141
% identity
                  52
```

NCBI Description lipid body-associated membrane protein - carrot

```
protein=DC 59 [Daucus carota=carrots, var Juwarot, Peptide,
                  180 aa] [Daucus carota]
Seq. No.
                  143789
Seq. ID
                  LIB3168-032-P1-K1-D3
                  BLASTX
Method
                  q4678383
NCBI GI
                  426
BLAST score
E value
                   5.0e-42
Match length
                  86
                  100
% identity
                   (AL049656) histone H2A.F/Z-like protein [Arabidopsis
NCBI Description
                  thaliana]
                  143790
Seq. No.
                  LIB3168-032-P1-K1-D5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4567300
                  273
BLAST score
E value
                  1.0e-152
Match length
                  297
% identity
                  97
                  Arabidopsis thaliana chromosome II P1 MHK10 genomic
NCBI Description
                  sequence, complete sequence
                  143791
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-D6
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143792
Seq. ID
                  LIB3168-032-P1-K1-D7
Method
                  BLASTN
NCBI GI
                  g4757407
BLAST score
                  361
E value
                  0.0e+00
Match length
                  417
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MQD19, complete sequence
Seq. No.
                  143793
Seq. ID
                  LIB3168-032-P1-K1-E1
Method
                  BLASTX
NCBI GI
                  g1871174
BLAST score
                  373
E value
                  4.0e-39
Match length
                  107
% identity
                  71
```

>gi 259453 bbs 117620 (S47635) lipid body membrane

```
NCBI Description (U90439) actin isolog [Arabidopsis thaliana]
                   143794
Seq. No.
Seq. ID
                   LIB3168-032-P1-K1-E12
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   561
E value
                   7.0e-58
Match length
                   135
% identity
                   81
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143795
Seq. ID
                   LIB3168-032-P1-K1-E2
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   464
E value
                   2.0e-46
Match length
                   101
% identity
                   86
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >qi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143796
Seq. ID
                   LIB3168-032-P1-K1-E3
Method
                   BLASTN
NCBI GI
                   q4757395
BLAST score
                   194
E value
                   1.0e-105
Match length
                   391
                   98
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K21L13, complete sequence
Seq. No.
                   143797
Seq. ID
                   LIB3168-032-P1-K1-E5
                   BLASTX
Method
                   q4056502
NCBI GI
BLAST score
                   603
E value
                   9.0e-63
Match length
                  126
                   92
% identity
                  (AC005896) 40S ribosomal protein S5 [Arabidopsis thaliana]
NCBI Description
```

143798

LIB3168-032-P1-K1-E6

Seq. No.

Seq. ID

```
Method
                  BLASTX
NCBI GI
                  g633890
BLAST score
                  319
                  2.0e-29
E value
Match length
                  107
% identity
                  61
                  (S72926) glucose and ribitol dehydrogenase homolog [Hordeum
NCBI Description
                  vulgare]
                  143799
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-E9
                  BLASTN
Method
NCBI GI
                  q3063438
BLAST score
                  351
                  0.0e+00
E value
Match length
                  416
                  95
% identity
                  Complete sequence of Arabidopsis F22013, complete sequence
NCBI Description
                  [Arabidopsis thaliana]
                  143800
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-F10
                  BLASTN
Method
NCBI GI
                  q4006885
BLAST score
                  313
                  1.0e-176
E value
Match length
                  424
                  99
% identity
                  Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
NCBI Description
                  fragment No
                  143801
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-F11
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  49
E value
                  3.0e-63
Match length
                  132
                  95
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143802
Seq. ID
                  LIB3168-032-P1-K1-F2
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  616
                  3.0e-64
E value
Match length
                  131
% identity
                  92
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
```

storage protein [Arabidopsis thaliana]

thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

```
143803
Seq. No.
                   LIB3168-032-P1-K1-F5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   355
E value
                   1.0e-34
                   77
Match length
                   99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143804
Seq. No.
                   LIB3168-032-P1-K1-F6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g21913
BLAST score
                   187
E value
                   5.0e-14
                   77
Match length
% identity
                   44
NCBI Description
                   (X62626) vicilin [Theobroma cacao]
Seq. No.
                   143805
                   LIB3168-032-P1-K1-F8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4325344
BLAST score
                   669
E value
                   2.0e-70
                   127
Match length
% identity
                   (AF128393) similar to beta-transducins (Pfam: PF00400,
NCBI Description
                   Score=71.7, E=1.5e-17, N=6) [Arabidopsis thaliana]
Seq. No.
                   143806
                   LIB3168-032-P1-K1-F9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   287
                   1.0e-45
E value
Match length
                   108
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143807
                   LIB3168-032-P1-K1-G1
Seq. ID
                   BLASTN
Method
NCBI GI
                   g3128143
BLAST score
                   118
E value
                   1.0e-59
                   327
Match length
                   92
% identity
NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MTI20, complete sequence [Arabidopsis thaliana]
```

. 43

143808

Seq. No.

```
LIB3168-032-P1-K1-G12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4741940
                  554
BLAST score
                  5.0e-57
E value
Match length
                  101
% identity
NCBI Description
                   (AF134120) Lhca2 protein [Arabidopsis thaliana]
                  143809
Seq. No.
                  LIB3168-032-P1-K1-G2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2499535
BLAST score
                  201
                  1.0e-15
E value
Match length
                  44
% identity
                  82
                  2-OXOGLUTARATE/MALATE TRANSLOCATOR PRECURSOR >gi 595681
NCBI Description
                   (U13238) 2-oxoglutarate/malate translocator [Spinacia
                  oleracea]
                  143810
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-G3
Method
                  BLASTX
                  g2245130
NCBI GI
                  254
BLAST score
                  7.0e-22
E value
Match length
                  140
% identity
                  44
                  (Z97344) GLABRA2 homolog [Arabidopsis thaliana]
NCBI Description
                  143811
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-G5
Method
                  BLASTN
                  g16472
NCBI GI
BLAST score
                  398
                  0.0e + 00
E value
                  418
Match length
% identity
                  99
NCBI Description A.thaliana rRNA repeat unit, most frequent IGR type
                  143812
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-G7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  661
                  1.0e-69
E value
Match length
                  128
                  99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143813
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-G9
                  BLASTX
Method
NCBI GI
                  g1628583
```

Seq. No.

143818

```
625
BLAST score
                  2.0e-65
E value
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143814
                  LIB3168-032-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204298
BLAST score
                  525
E value
                  1.0e-53
Match length
                  120
% identity
                  85
NCBI Description
                  (AC003027) lcl prt seg No definition line found
                  [Arabidopsis thaliana]
Seq. No.
                  143815
Seq. ID
                  LIB3168-032-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  q633890
BLAST score
                  287
E value
                  8.0e-26
Match length
                  88
% identity
NCBI Description
                  (S72926) glucose and ribitol dehydrogenase homolog [Hordeum
                  vulgare]
Seq. No.
                  143816
Seq. ID
                  LIB3168-032-P1-K1-H2
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  337
E value
                  2.0e-65
Match length
                  141
% identity
                  87
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143817
Seq. ID
                  LIB3168-032-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  g1362003
BLAST score
                  729
E value
                  1.0e-77
Match length
                  141
                  100
% identity
NCBI Description
                  protein phosphatase 2A B regulatory chain 55K - Arabidopsis
                  thaliana >qi 710330 (U18129) 55 kDa B regulatory subunit of
                  phosphatase 2A [Arabidopsis thaliana]
```

17771

```
LIB3168-032-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3157937
BLAST score
                  644
E value
                  1.0e-67
Match length
                  128
% identity
NCBI Description
                   (AC002131) Identical to aspartic proteinase cDNA gb U51036
                  from A. thaliana. ESTs gb N96313, gb T21893, gb R30158,
                  gb_T21482, gb_T43650, gb_R64749, gb_R65157, gb_T88269,
                  gb_T44552, gb_T22542, gb_T76533, gb_T44350, gb_Z34591,
                  gb AA728734, gb
Seq. No.
                  143819
Seq. ID
                  LIB3168-032-P1-K1-H6
Method
                  BLASTN
NCBI GI
                  g3849811
BLAST score
                  355
E value
                  0.0e + 00
Match length
                  391
                  98
% identity
NCBI Description
                  Arabidopsis thaliana chromosome I BAC T2P11 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143820
Seq. ID
                  LIB3168-032-P1-K1-H8 ·
Method
                  BLASTN
NCBI GI
                  g16473
BLAST score
                  411
                  0.0e+00
E value
Match length
                  419
% identity
                  100
NCBI Description Arabidopsis thaliana 25S-18S ribosomal DNA spacer
                  143821
Seq. No.
Seq. ID
                  LIB3168-032-P1-K1-H9
Method
                  BLASTX
NCBI GI
                  g3128168
BLAST score
                  593
E value
                  1.0e-61
Match length
                  140
% identity
                   (AC004521) putative carboxyl-terminal peptidase
NCBI Description
                  [Arabidopsis thaliana]
                  143822
Seq. No.
                  LIB3168-033-P1-K1-A1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  564
                  3.0e-58
E value
Match length
                  132
                  83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
```

thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

E value

Match length

## storage protein [Arabidopsis thaliana] 143823 Seq. No. LIB3168-033-P1-K1-A10 Seq. ID Method **BLASTX** NCBI GI g2129657 293 BLAST score 2.0e-26 E value Match length 88 % identity oleosin isoform - Arabidopsis thaliana NCBI Description >qi 987014 emb CAA90877 (Z54164) oleosin [Arabidopsis thaliana] $\overline{>}$ gi $\overline{9}87016$ emb CAA90878 (Z54165) oleosin [Arabidopsis thaliana] 143824 Seq. No. LIB3168-033-P1-K1-A2 Seq. ID Method BLASTX NCBI GI g3421123 BLAST score 598 3.0e-62 E value Match length 116 % identity (AF043538) 20S proteasome beta subunit PBG1 [Arabidopsis NCBI Description thaliana] 143825 Seq. No. LIB3168-033-P1-K1-A3 Seq. ID Method BLASTX NCBI GI g1628583 BLAST score 622 E value 5.0e-65 120 Match length % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi 2842495 emb CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 143826 LIB3168-033-P1-K1-A5 Seq. ID Method BLASTX NCBI GI g1628583 BLAST score 625 E value 2.0e-65 Match length 120 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 143827 Seq. No. LIB3168-033-P1-K1-A7 Seq. ID Method BLASTX NCBI GI g112682 BLAST score 414

9.0e-41

87

```
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143828
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-A8
Method
                  BLASTX
NCBI GI
                  q1169544
                                      ...
BLAST score
                  668
                  2.0e-70
E value
                  135
Match length
% identity
                  99
NCBI Description
                  ERD1 PROTEIN PRECURSOR >gi_541859_pir__JN0901 ERD1 protein
                  - Arabidopsis thaliana >qi 497629 dbj BAA04506 (D17582)
                  ERD1 protein [Arabidopsis thaliana]
Seq. No.
                  143829
                  LIB3168-033-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1345973
BLAST score
                  488
E value
                  3.0e-49
Match length
                  106
% identity
                  83
                  OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                  >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC
                  1.14.99.-) CF3 - Arabidopsis thaliana >gi 408483 (L22931)
                  omega-3 fatty acid desaturase [Arabidopsis thaliana]
                  >qi 471091 dbj BAA04505 (D17579) fatty acid desaturase
                  [Arabidopsis thaliana] >gi 1197795 dbj_BAA05514_ (D26508)
                  microsomal omega-3 fatty acid desaturase [Arabidopsis
                  thaliana] >qi 3420053 (AC004680) omega-3 fatty acid
                  desaturase [Arabidopsis thaliana]
Seq. No.
                  143830
                  LIB3168-033-P1-K1-B10
Seq. ID
                  BLASTN
Method-
NCBI GI
                  g2264313
BLAST score
                  405
E value
                  0.0e + 00
Match length
                  405
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MOP10, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143831
Seq. ID
                  LIB3168-033-P1-K1-B11
Method
                  BLASTX
NCBI GI
                  q82220
BLAST score
                  556
E value
                  3.0e-57
Match length
                  137
                  83
% identity
```

NCBI Description hypothetical protein 581 - common tobacco chloroplast

```
>gi 225240 prf 1211235BY ORF 581 [Nicotiana tabacum]
                   143832
Seq. No.
                  LIB3168-033-P1-K1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                   q2213615
BLAST score
                   461
                   4.0e-46
E value
                   136
Match length
                   59
% identity
NCBI Description
                   (AC000103) F21J9.9 [Arabidopsis thaliana]
                   143833
Seq. No.
                  LIB3168-033-P1-K1-B3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   535
E value
                   8.0e-55
Match length
                  129
                   80
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143834
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-B4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   625
E value
                   2.0e-65
Match length
                  120
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143835
                  LIB3168-033-P1-K1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143836
Seq. No.
Seq. ID
                  ..LIB3168-033-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g4454051
BLAST score
                  601
E value
                  1.0e-62
Match length
                  132
```

```
% identity
NCBI Description
                  (AL035394) putative polygalacturonase [Arabidopsis
                  thaliana]
Seq. No.
                  143837
Seq. ID
                  LIB3168-033-P1-K1-B7
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  652
E value
                  1.0e-68
Match length
                  127
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143838
Seq. ID
                  LIB3168-033-P1-K1-B8
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  513
                  3.0e-52
E value
Match length
                  102
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143839
Seq. ID
                  LIB3168-033-P1-K1-B9
Method
                  BLASTX
                  g112741
NCBI GI
BLAST score
                  604
                  6.0e-63
E value
                  128
Match length
                  89
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thalïana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143840
Seq. ID
                  LIB3168-033-P1-K1-C1
Method
                  BLASTN
NCBI GI
                  g4263694
BLAST score
                  391
                  0.0e+00
E value
                  411
Match length
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC F22D22 genomic
NCBI Description
```

sequence, complete sequence [Arabidopsis thaliana]

Seq. ID

```
Seq. No.
                  143841
Seq. ID
                  LIB3168-033-P1-K1-C10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   653
                   1.0e-68
E value
                   127
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143842
Seq. No.
                  LIB3168-033-P1-K1-C11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3047074
BLAST score
                   323
                  0.0e + 00
E value
Match length
                   379
                   99
% identity
NCBI Description Arabidopsis thaliana BAC F21E10
                  143843
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  g3894178
BLAST score
                  270
E value
                   9.0e-24
                  57
Match length
% identity
NCBI Description
                   (AC005312) putative nucleic acid binding protein
                   [Arabidopsis thaliana]
                  143844
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-C2
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
                  100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143845
Seq. ID
                  LIB3168-033-P1-K1-C3
                  BLASTX
Method
NCBI GI
                  q4467123
BLAST score
                  162
E value
                  4.0e-11
Match length
                  108
% identity
NCBI Description
                  (AL035538) hypothetical protein [Arabidopsis thaliana]
Seq. No.
                  143846
```

LIB3168-033-P1-K1-C4

```
Method
                  BLASTX
                  g1628583
NCBI GI
                  46
BLAST score
                  2.0e-60
E value
                  134
Match length
                  90
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143847
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-C5
                  BLASTN
Method
                  g2980787
NCBI GI
BLAST score
                  341
                  0.0e + 00
E value
                  407
Match length
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, Pl clone M7J2
NCBI Description
                  (ESSAII project)
Seq. No.
                  143848
                  LIB3168-033-P1-K1-C6
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112682
BLAST score
                  444
                  4.0e-44
E value
                  99
Match length
                  86
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143849
                  LIB3168-033-P1-K1-C7
Seq. ID
                  BLASTX
Method
                  q4490732
NCBI GI
BLAST score
                  354
E value
                  1.0e-33
                  97
Match length
                  74
% identity
                  (AL035709) phosphoenolpyruvate carboxykinase (ATP)-like
NCBI Description
                  protein [Arabidopsis thaliana]
Seq. No.
                  143850
                  LIB3168-033-P1-K1-C9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112743
                  600
BLAST score
                  2.0e-62
E value
                  111
Match length
                  98
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
```

Arabidopsis thaliana >gi 166617 (M22033) albumin 2S subunit

E value

Match length

3.0e-60

134

```
>gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                   precursor [Arabidopsis thaliana]
Seq. No.
                   143851
Seq. ID
                   LIB3168-033-P1-K1-D10
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   668
E value
                   2.0e-70
Match length
                   128
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143852
Seq. ID
                  LIB3168-033-P1-K1-D11
Method
                   BLASTX
NCBI GI
                  q3355468
BLAST score
                   411
E value
                   3.0e-40
Match length
                   123
% identity
NCBI Description
                   (AC004218) putative ribosomal protein L35 [Arabidopsis
                  thaliana]
Seq. No.
                  143853
                  LIB3168-033-P1-K1-D2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3075383
BLAST score
                   205
E value
                  1.0e-111
Match length
                   410
% identity
                  Arabidopsis thaliana chromosome II BAC T1D16 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  143854
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-D3
Method
                  BLASTN
NCBI GI
                  q4589450
BLAST score
                  219
E value
                  1.0e-120
Match length
                  363
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  T31K7, complete sequence
Seq. No.
                  143855
Seq. ID
                  LIB3168-033-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  581.
```

4 precursor [Arabidopsis thaliana] >gi 395202 emb CAA80869

(Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]

Method

NCBI GI

BLASTX

q4263771

```
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143856
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-D6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  614
                  4.0e-64
E value
Match length
                  120
% identity
                  97
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143857
                  LIB3168-033-P1-K1-D7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  684
                  3.0e-72
E value
Match length
                  132
                  98
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143858
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-D8
Method
                  BLASTX
NCBI GI
                  q4165488
BLAST score
                  548
E value
                  2.0e-56
Match length
                  101
                  100
% identity
NCBI Description
                  (AJ132399) alpha-tubulin 3 [Hordeum vulgare]
                  143859
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-D9
Method
                  BLASTN
NCBI GI
                  g1313927
BLAST score
                  45
E value
                  4.0e-16
Match length
                  190
% identity
NCBI Description B.oleracea mRNA for IFA binding protein (sp10)
                  143860
Seq. No.
                  LIB3168-033-P1-K1-E1
Seq. ID
```

```
BLAST score
                  303
E value
                  1.0e-27
Match length
                  76
% identity
                  71
NCBI Description
                  (AC006218) putative nonspecific lipid-transfer protein
                  precursor [Arabidopsis thaliana]
                  >gi 4726121 gb AAD28321.1 AC006436 12 (AC006436) putative
                  nonspecific lipid-transfer protein precursor [Arabidopsis
                  thaliana]
                  143861
Seq. No.
                  LIB3168-033-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129657
BLAST score
                  305
E value
                  7.0e-28
Match length
                  91
                  73
% identity
NCBI Description
                  oleosin isoform - Arabidopsis thaliana
                  >gi 987014 emb_CAA90877 (Z54164) oleosin [Arabidopsis
                  thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                  [Arabidopsis thaliana]
                  143862
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  411
E value
                  2.0e-40
Match length
                  123
% identity
                  70
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143863
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  g4539316
BLAST score
                  96
E value
                  5.0e-39
Match length
                  114
% identity
                  (AL035679) putative fructose-bisphosphate aldolase
NCBI Description
                  [Arabidopsis thaliana]
                  143864
Seq. No.
                  LIB3168-033-P1-K1-E3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1707364
BLAST score
                  266
E value
                  3.0e-23
Match length
                  110
% identity
                  (X94626) AATP2 [Arabidopsis thaliana]
NCBI Description
```

```
Seq. No.
                  143865
Seq. ID
                  LIB3168-033-P1-K1-E4
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  651
                  2.0e-68
E value
                  136
Match length
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143866
Seq. ID
                  LIB3168-033-P1-K1-E5
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  700
                  4.0e-74
E value
                  130
Match length
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143867
                  LIB3168-033-P1-K1-E6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2980757
BLAST score
                  314
                  1.0e-176
E value
Match length
                  314
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F6I18
NCBI Description
                  (ESSAII project)
Seq. No.
                  143868
Seq. ID
                  LIB3168-033-P1-K1-E8
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  686
                  2.0e-72
E value
                  127
Match length
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
```

precursor [Arabidopsis thaliana]

Method

BLASTN

```
Seq. No.
                  143869
Seq. ID
                  LIB3168-033-P1-K1-E9
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  476
                  5.0e-48
E value
Match length
                  107
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143870
Seq. ID
                  LIB3168-033-P1-K1-F1
Method
                  BLASTN
NCBI GI
                  g3450888
BLAST score
                  389
                  0.0e+00
E value
                  397
Match length
% identity
                  99
                  Arabidopsis thaliana 19S proteosome subunit 9 mRNA,
NCBI Description
                  complete cds
Seq. No.
                  143871
                  LIB3168-033-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  533
E value
                  1.0e-54
                  113
Match length
                  89
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143872
Seq. ID
                  LIB3168-033-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  516
E value
                  1.0e-52
Match length
                  129
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143873
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-F12
```

BLAST score

688

```
NCBI GI
                  g3292807
                  244
BLAST score
E value
                  1.0e-135
                  279
Match length
                  100
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F7H19
                  (ESSAII project)
                  143874
Seq. No.
                  LIB3168-033-P1-K1-F3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1550740
BLAST score
                  692
                  3.0e-73
E value
Match length
                  135
                  98.
% identity
NCBI Description
                  (Y07961) GDP-associated inhibitor [Arabidopsis thaliana]
                  143875
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-F4
Method
                  BLASTX
NCBI GI
                  g2541876
BLAST score
                  239
E value
                  4.0e-20
Match length
                  138
% identity
                  35
                  (D26015) CND41, chloroplast nucleoid DNA binding protein
NCBI Description
                  [Nicotiana tabacum]
                  143876
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-F5
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  655
E value
                  7.0e-69
                  131
Match length
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143877
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-F6
                  BLASTN
Method
NCBI GI
                  g2564044
BLAST score
                  253
E value
                  1.0e-140
                  417
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K19P17, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143878
                  LIB3168-033-P1-K1-F7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1350680
```

```
E value
                  9.0e-73
Match length
                  134
% identity
                  99
NCBI Description
                  60S RIBOSOMAL PROTEIN L1
Seq. No.
                  143879
Seq. ID
                  LIB3168-033-P1-K1-F8
Method
                  BLASTX
NCBI GI
                  q1172872
BLAST score
                  542
E value
                  1.0e-55
Match length
                  106
% identity
                  CYSTEINE PROTEINASE RD19A PRECURSOR >qi 541856 pir JN0718
NCBI Description
                  drought-inducible cysteine proteinase (EC 3.4.22.-) RD19A
                  precursor - Arabidopsis thaliana >gi 435618 dbj BAA02373
                  (D13042) thiol protease [Arabidopsis thaliana]
                  >qi 4539328 emb CAB38829.1 (AL035679) drought-inducible
                  cysteine proteinase RD19A precursor [Arabidopsis thaliana]
                  143880
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-F9
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  563
                  4.0e-58
E value
Match length
                  134
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143881
Seq. No.
                  LIB3168-033-P1-K1-G1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  609
                  2.0e-63
E value
                  120
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143882
Seq. No.
                  LIB3168-033-P1-K1-G11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  46
                  5.0e-26
E value
                  60
Match length
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
```

BLAST score

Match length % identity

E value

519

77

6.0e-53 137

```
thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed storage protein [Arabidopsis thaliana]
```

```
143883
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-G12
Method
                  BLASTX
NCBI GI
                  q112681
                  591
BLAST score
E value
                  2.0e-61
Match length
                  137
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143884
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-G2
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  697
E value
                  8.0e-74
Match length
                  128
                  98
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >qi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143885
                  LIB3168-033-P1-K1-G3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  669
E value
                  2.0e-70
Match length
                  138
                  91
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                1 precursor [Arabidopsis thaliana] >gi 395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143886
                  LIB3168-033-P1-K1-G4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
```

```
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{1}iana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143887
                  LIB3168-033-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  415
                  9.0e-41
E value
                  108
Match length
                  76
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir_NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb_CAA80871
                  (Z24745) 2S albumin isoform 25 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143888
Seq. ID
                  LIB3168-033-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  g1107501
BLAST score
                  397
E value
                  1.0e-38
                  99
Match length
% identity
                  (X91954) orf [Arabidopsis thaliana] >gi 3367530 (AC004392)
NCBI Description
                  Match to gb X91954 orf gene product from A. thaliana. ESTs
                  gb Z17604, gb H76594, gb AA597972 and gb AA394824 come from
                  this gene. [Arabidopsis thaliana]
                  143889
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-G7
Method
                  BLASTX
NCBI GI
                  g1817544
BLAST score
                  506
E value
                  2.0e-51
                  99
Match length
% identity
NCBI Description
                  (D83025) proline oxidase precursor [Arabidopsis thaliana]
                 143890
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  540
E value
                  2.0e-55
Match length
                  131
% identity
                  80
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
```

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870

```
(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana] 143891
```

```
Seq. No.
Seq. ID
                  LIB3168-033-P1-K1-G9
                  BLASTN
Method
                  q4455321
NCBI GI
BLAST score
                  210
                   1.0e-114
E value
Match length
                   387
                   100
% identity
NCBI Description
```

NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone F4I10 (ESSAII project)

Seq. No. 143892 Seq. ID LIB3168-033-P1-K1-H12

Method BLASTN
NCBI GI g16131
BLAST score 272
E value 1.0e-151
Match length 291

% identity 99
NCBI Description Arabidopsis thaliana genes for 5.8S rRNA and 25S rRNA with 18S rRNA fragment

 Seq. No.
 143893

 Seq. ID
 LIB3168-033-P1-K1-H2

 Method
 BLASTX

 NCBI GI
 g1628583

NCBI GI g162858 BLAST score 426 E value 4.0e-42 Match length 119 % identity 72

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

 Seq. No.
 143894

 Seq. ID
 LIB3168-033-P1-K1-H4

 Method
 BLASTX\_\_\_\_\_\_

NCBI GI g112737
BLAST score 280
E value 6.0e-25
Match length 124
% identity 52

NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

precursor [Arabidopsis thaliana]

Seq. No. 143895

Seq. ID LIB3168-033-P1-K1-H7

Method BLASTX

NCBI GI q1628583 BLAST score 553 6.0e-57 E value 131 Match length % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

143896 Seq. No.

Seq. ID LIB3168-033-P1-K1-H8

Method BLASTX g1628583 NCBI GI BLAST score 563 4.0e-58 E value Match length 119 % identity 92

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

> thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

143897 Seq. No.

LIB3168-034-P1-K1-A1 Seq. ID

Method BLASTX NCBI GI q1628583 BLAST score 625 E value 2.0e-65 Match length 120 % identity 100

(U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description

thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 143898

LIB3168-034-P1-K1-A10 Seq. ID

Method BLASTN NCBI GI g2696018 BLAST score 283 E value 1.0e-158 Match length 396 % identity 86

NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:

MXC9, complete sequence [Arabidopsis thaliana]

143899 Seq. No.

LIB3168-034-P1-K1-A11 Seq. ID

Method BLASTX NCBI GI q2832674 BLAST score 686 2.0e-72 E value Match length 137 % identity

(AL021712) fibrillin precursor-like protein (Arabidopsis NCBI Description

thaliana]

143900 Seq. No.

Seq. ID LIB3168-034-P1-K1-A12

E value

3.0e-68

```
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  554
E value
                  5.0e-57
Match length
                  134
% identity
                  81
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  143901
Seq. No.
                  LIB3168-034-P1-K1-A2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  613
                  6.0e-64
E value
Match length
                  134
                  88
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana].
                  143902
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-A4
Method
                  BLASTX
NCBI GI
                  g4204298
                  521
BLAST score
E value
                  4.0e-53
Match length
                  100
                  99
% identity
                  (AC003027) lcl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
                  143903
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-A5
                  BLASTX
Method
NCBI GI
                  g4006915
                  177
BLAST score
                  8.0e-13
E value
Match length
                  107
                  39
% identity
NCBI Description
                 (Z99708) hypothetical protein [Arabidopsis thaliana]
                  143904
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-A6
                  BLASTX
Method
NCBI GI
                  g3687228
BLAST score
                  45
```

```
138
Match length
% identity
                  94
                  (AC005169) putative malate dehydrogenase [Arabidopsis
NCBI Description
                  143905
Seq. No.
                  LIB3168-034-P1-K1-A7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  578
E value
                  7.0e-60
Match length
                  124
% identity
                  88
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >qi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201_emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143906
                  LIB3168-034-P1-K1-A8
Seq. ID
Method
                  BLASTN
                  q4376087
NCBI GI
BLAST score
                  348
E value
                  0.0e + 00
Match length
                  413
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
                  fragment No
Seq. No.
                  143907
                  LIB3168-034-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  423
E value
                  1.0e-41
Match length
                  122
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143908
Seq. No.
                  LIB3168-034-P1-K1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  748
E value
                  8.0e-80
Match length
                  140
% identity
                  100
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
143909
Seq. No.
                  LIB3168-034-P1-K1-B11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  607
                  3.0e-63
E value
                  120
Match length
                  97
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis-
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143910
Seq. No.
                  LIB3168-034-P1-K1-B12
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  482
E value
                  1.0e-48
Match length
                  101
                  91
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143911
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-B2
                  BLASTX
Method
NCBI GI
                  g1531762
                  195
BLAST score
E value
                  6.0e-15
Match length
                  51
% identity
                  (Y07765) S-adenosylmethionine decarboxylase [Arabidopsis
NCBI Description
                  thaliana]
                  143912 . •
Seq. No.
                  LIB3168-034-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3540180
BLAST score
                  699
E value
                  5.0e-74
                  135
Match length
% identity
                  99
NCBI Description
                  (AC004122) Unknown protein [Arabidopsis thaliana]
                  143913
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  91
                  6.0e-61
E value
Match length
                  131
                  92
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
```

Match length

NCBI Description

% identity

81

```
thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143914 -
Seq. No.
Seq. ID
                   LIB3168-034-P1-K1-B7
Method
                   BLASTX
                   g2129657
NCBI GI
                   433
BLAST score
                   7.0e-43
E value
                   116
Match length
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi 987014 emb CAA90877 (Z54164) oleosin [Arabidopsis
                   thaliana] >gi 987016_emb_CAA90878 (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   143915
Seq. ID
                   LIB3168-034-P1-K1-B8
Method
                   BLASTX
NCBI GI
                   g131150
BLAST score
                   714
                   8.0e-76
E value
Match length
                   136
                   94
% identity
                   PHOTOSYSTEM I P700 CHLOROPHYLL A APOPROTEIN A2
NCBI Description
                   >gi 81515 pir S00445 photosystem I protein A2 - spinach
                   chloroplast >gi 12271 emb CAA27745 (X04131) psaB gene product (aa 1-734) P700 chlorophyll a apoprotein [Spinacia
                   oleracea] >gi 225422_prf__1303218B gene psaB [Spinacia
                   oleracea]
                   143916
Seq. No.
Seq. ID
                   LIB3168-034-P1-K1-B9
Method
                   BLASTN
NCBI GI
                   g2645198
BLAST score
                   45
E value
                   4.0e-16
Match length
                   162
% identity
                   83
                   Arabidopsis thaliana chromosome I BAC T26J12 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   143917
Seq. No.
Seq. ID
                   LIB3168-034-P1-K1-C1
                   BLASTX
Method
NCBI GI
                   g112741
BLAST score
                   424
                   4.0e-42
E value
```

99
2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68855\_pir\_\_ NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi\_4490712\_emb\_CAB38846.1\_(AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana]

Match length

108

```
143918
Seq. No.
                  LIB3168-034-P1-K1-C10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q82051
BLAST score
                  333
                  4.0e-31
E value
Match length
                  125
% identity
                  53
NCBI Description
                  lipid body-associated membrane protein - carrot
                  >gi 259453 bbs 117620 ($47635) lipid body membrane
                  protein=DC 59 [Daucus carota=carrots, var Juwarot, Peptide,
                  180 aa] [Daucus carota]
                  143919
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-C11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  619
                  1.0e-64
E value
                  120
Match length
                  99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143920
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-C12
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  621
E value
                  5.0e-65
                  119
Match length
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143921
Seq. No.
                  LIB3168-034-P1-K1-C3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  616
E value
                  3.0e-64
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143922
Seq. No.
                  LIB3168-034-P1-K1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129773
BLAST score
                  580
E value
                  4.0e-60
```

. .

Seq. ID

```
% identity
NCBI Description
                  xyloglucan endotransglycosylase-related protein XTR3 -
                  Arabidopsis thaliana (fragment) >gi 1244752 (U43485)
                  xyloglucan endotransglycosylase-related protein
                  [Arabidopsis thaliana]
                  143923
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-C6
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  332
                  5.0e-31
E value
                  74
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143924
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  g3540180
BLAST score
                  706
                  7.0e-75
E value
Match length.
                  135
                  100
% identity
                  (AC004122) Unknown protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143925
Seq. ID
                  LIB3168-034-P1-K1-C9
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  277
E value
                  1.0e-24
Match length
                  123
% identity
                  53
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir_NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143926
Seq. ID
                  LIB3168-034-P1-K1-D1
Method
                  BLASTX
NCBI GI
                  q4115388
BLAST score
                  670
E value
                  1.0e-70
                  129
Match length
% identity
                  (AC005967) putative prolylcarboxypeptidase [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  143927
```

LIB3168-034-P1-K1-D10

```
BLASTX
Method
NCBI GI
                  g119350
BLAST score
                  696
                  1.0e-73
E value
Match length
                  136
% identity
                  99
                  ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE)
NCBI Description
                  (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) >qi 81608 pir JQ1187
                  phosphopyruvate hydratase (EC 4.2.1.11) - Arabidopsis
                  thaliana >gi 16271 emb CAA41114 (X58107) enolase
                  [Arabidopsis thaliana]
                  >qi 4581151 qb AAD24635.1 AC006919 13 (AC006919) enolase
                  (2-phospho-D-glycerate hydroylase); identical to P25696
                  [Arabidopsis thaliana]
                  143928
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  g112681
                  571
BLAST score
                  5.0e-59
E value
                  132
Match length
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143929
                  LIB3168-034-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  528
E value
                  5.0e-54
Match length
                  112
                  89
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (224745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143930
                  LIB3168-034-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2352492
BLAST score
                  706
E value
                  7.0e-75
                  136
Match length
% identity
                  100
                  (AF005047) transport inhibitor response 1 [Arabidopsis
NCBI Description
                  thaliana] >gi 2352494 (AF005048) transport inhibitor
```

response 1 [Arabidopsis thaliana]

```
143931
Seq. No.
                  LIB3168-034-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
                  450
BLAST score
                  7.0e-45
E value
                  127
Match length
                  72
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  143932
Seq. No.
                  LIB3168-034-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  556
E value
                  3.0e-57
Match length
                  139
% identity
```

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

 Seq. No.
 143933

 Seq. ID
 LIB3168-034-P1-K1-D7

 Method
 BLASTX

 NCBI GI
 g112681

NCBI GI g112681 BLAST score 555 E value 4.0e-57 Match length 130 % identity 83

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis

thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 143934

Seq. ID LIB3168-034-P1-K1-D9

Method BLASTX
NCBI GI g2244750
BLAST score 591
E value 2.0e-61
Match length 126
% identity 89

NCBI Description (Z97335) adenosylhomocysteinase [Arabidopsis thaliana]

>qi 3088579 (AF059581) S-adenosyl-L-homocysteine hydrolase

[Arabidopsis thaliana]

Seq. No. 143935

Seq. ID LIB3168-034-P1-K1-E1

Method BLASTX

```
q1628583
NCBI GI
                  354
BLAST score
E value
                  1.0e-33
                  88
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143936
Seq. No.
                  LIB3168-034-P1-K1-E10
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
                  675
BLAST score
                  3.0e-71
E value
                  137
Match length
                  93
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143937
Seq. ID
                  LIB3168-034-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  g112682
                  576
BLAST score
                  1.0e-59
E value
Match length
                  120
                  90
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605 pir __S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143938
Seq. No.
                  LIB3168-034-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
                  252
BLAST score
                  1.0e-21
E value
Match length
                  51
% identity
                  98
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143939
Seq. No.
                  LIB3168-034-P1-K1-E2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  585
                  1.0e-60
E value
```

Seq. ID

```
Match length
                   111
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   143940
Seq. No.
                   LIB3168-034-P1-K1-E3
Seq. ID
Method
                   BLASTX
                   g112682
NCBI GI
BLAST score
                   583
                   2.0e-60
E value
                   136
Match length
% identity
                   82
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143941
Seq. No.
Seq. ID
                   LIB3168-034-P1-K1-E5
Method
                   BLASTX
NCBI GI
                   g4204298
BLAST score
                   538.
E value
                   4.0e-55
Match length
                   131
% identity
                   (AC003027) lcl_prt_seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   143942
                   LIB3168-034-P1-K1-E6
Seq. ID
Method
                   BLASTX
                   q1628583
NCBI GI
                   708
BLAST score
                   4.0e-75
E value
Match length
                   136
% identity
                   99
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   143943
                   LIB3168-034-P1-K1-E7
Seq. ID
                   BLASTX
Method
                   q1628583
NCBI GI
BLAST score
                   722
E value
                   9.0e-77
                   137
Match length
 % identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
```

LIB3168-034-P1-K1-E8

NCBI GI

```
Method
                  BLASTN
NCBI GI
                  g3046853
BLAST score
                  367
                  0.0e + 00
E value
                  375
Match length
% identity
                  99
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MRA19, complete sequence [Arabidopsis thaliana]
                  143945
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-E9
Method
                  BLASTN
NCBI GI
                  g4220635
BLAST score
                  52
                  2.0e-20
E value
                  76
Match length
% identity
                  96
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBÍ Description
                  MDB19, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143946
Seq. ID
                  LIB3168-034-P1-K1-F1
                  BLASTN
Method
NCBI GI
                  g3282170
BLAST score
                  301
                  1.0e-169
E value
                  430
Match length
                  66
% identity
                  Arabidopsis thaliana chromosome 1 BAC F8K4 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  143947
Seq. No.
                  LIB3168-034-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1703723
                  466
BLAST score
                  9.0e-47
E value
                  106
Match length
                  86
% identity
                  ATP SYNTHASE BETA CHAIN >gi_733448 (U23082) CF1 ATP
NCBI Description
                  synthase beta subunit [Spinacia oleracea]
Seq. No.
                  143948
Seq. ID
                  LIB3168-034-P1-K1-F12
                  BLASTN
Method
NCBI GI
                  g3522932
BLAST score
                  161
                  2.0e-85
E value
Match length
                  399
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC F14M4 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  143949
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-F3
Method
                  BLASTX
```

ŗ,

g2809258

```
BLAST score
                   124
E value
                   3.0e-42
Match length
                   89
% identity
                   100
NCBI Description (AC002560) F21B7.27 [Arabidopsis thaliana]
Seq. No.
                  143950
                  LIB3168-034-P1-K1-F4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1172873
BLAST score
                   634
                   2.0e-66
E value
Match length
                   125
% identity
                   100
NCBI Description
                  CYSTEINE PROTEINASE RD21A PRECURSOR >gi 541857 pir JN0719
                  drought-inducible cysteine proteinase (EC 3.4.22.-) RD21A
                  precursor - Arabidopsis thaliana >gi_435619_dbj_BAA02374_
                   (D13043) thiol protease [Arabidopsis thaliana]
Seq. No.
                  143951
Seq. ID
                  LIB3168-034-P1-K1-F5
Method .
                  BLASTX -
NCBI GI
                  g1174850
BLAST score
                  517
                  1.0e-52
E value
Match length
                  112
% identity
                  88
NCBI Description
                  UBIQUITIN-CONJUGATING ENZYME E2-21 KD 2 (UBIQUITIN-PROTEIN
                  LIGASE 5) (UBIQUITIN CARRIER PROTEIN 5)
Seq. No.
                  143952
Seq. ID
                  LIB3168-034-P1-K1-F7
Method
                  BLASTX
NCBI GI
                  a861366
BLAST score
                  349
E value
                  5.0e-33
Match length
                  123
% identity
NCBI Description
                   (U28991) coded for by C. elegans cDNA cm21c7
                   [Caenorhabditis elegans]
Seq. No.
                  143953
Seq. ID
                  LIB3168-034-P1-K1-F8
Method
                  BLASTX
NCBI GI
                  g2924262
BLAST score
                  595
E value
                  6.0e-62
Match length
                  126
% identity
NCBI Description (Z00044) PSII 44kd protein [Nicotiana tabacum]
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-F9
Method
                  BLASTN
NCBI GI
                  q4662628
BLAST score
                  261
E value
                  1.0e-145
```

17801

. l.

```
417
Match length
% identity
                  94
                  Arabidopsis thaliana chromosome II BAC F27010 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  143955
                  LIB3168-034-P1-K1-G1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112737
                  550
BLAST score
E value
                  1.0e-56
Match length
                  133
                  80
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  143956
.Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-G10
                  BLASTX ·
Method
NCBI GI
                  g1628583
                                                        . . . .
BLAST score
                  548
                  2.0e-56
E value
Match length
                  138
                  79
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143957
                  LIB3168-034-P1-K1-G11
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1170034
                  218
BLAST score
E value
                  2.0e-21
Match length
                  66
                  79
% identity
                  GLUTAMATE--CYSTEINE LIGASE PRECURSOR
NCBI Description
                  (GAMMA-GLUTAMYLCYSTEINE SYNTHETASE) (GAMMA-ECS) (GCS)
                  >gi 2129598 pir S60128 glutamate--cysteine ligase (EC
                  6.3.2.2) precursor, chloroplast - Arabidopsis thaliana
                  >gi_488615_emb_CAA82626_ (Z29490) gamma-glutamylcysteine
                  synthetase [Arabidopsis thaliana]
Seq. No.
                  143958
                  LIB3168-034-P1-K1-G3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3449331
                  360
BLAST score
                  0.0e + 00
E value
Match length
                  408
% identity
                  24
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
```

NCBI Description

```
Seq. No.
                   143959
Seq. ID
                   LIB3168-034-P1-K1-G5
Method
                   BLASTX
NCBI GI
                   g2829918
BLAST score
                   609
E value
                   2.0e-63
Match length
                   126
% identity
                   95
                   (AC002291) similar to "tub" protein gp_U82468_2072162
NCBI Description
                   [Arabidopsis thaliana]
                   143960
Seq. No.
Seq. ID
                   LIB3168-034-P1-K1-G7
Method
                   BLASTX
NCBI GI
                   g266693
BLAST score
                   382
E value
                   4.0e-41
Match length
                   130
% identity
                   72
                   OLEOSIN >gi 282875_pir__S22538 oleosin - Arabidopsis
NCBI Description
                   thaliana >gi_16405_emb_CAA44225_ (X62353) oleosin
                   [Arabidopsis thaliana] >gi_4455257_emb_CAB36756.1
                   (AL035523) oleosin, 18.5K [Arabidopsis thaliana]
                   143961
Seq. No.
Seq. ID
                   LIB3168-034-P1-K1-G9
Method
                   BLASTN
NCBI GI
                   g4490717
BLAST score
                   201
E value
                   1.0e-109
Match length
                   366
                   98
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone (ESSA
                  project)
                   143962
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-H2
Method
                  BLASTN
NCBI GI
                   g3046853
BLAST score
                   152
E value
                   6.0e-80
Match length
                   318
% identity
                   91
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MRA19, complete sequence [Arabidopsis thaliana]
                  143963
Seq. No.
                  LIB3168-034-P1-K1-H4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  621
                  7.0e-65
E value
Match length
                  119
% identity
```

MNC17, complete sequence [Arabidopsis thaliana]

(U66916) 12S cruciferin seed storage protein [Arabidopsis

```
thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143964
Seq. No.
                  LIB3168-034-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1169598
                  400
BLAST score
E value
                  5.0e-39
                  90
Match length
% identity
                  82
                  OMEGA-6 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                  (DELTA-12 DESATURASE) >gi 438451 (L26296) delta-12
                  desaturase [Arabidopsis thaliana]
                  143965
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  557
E value
                  2.0e-57
Match length
                  132
                  80
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  143966
Seq. ID
                  LIB3168-034-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  q464775
BLAST score
                  393
E value
                  4.0e-38
                  98
Match length
                  73
% identity
                  SUPEROXIDE DISMUTASE PRECURSOR (MN) >gi 542013 pir S39492
NCBI Description
                  superoxide dismutase - Para rubber tree >gi 348137 (L11707)
                  superoxide dismutase (manganese) [Hevea brasiliensis]
                  143967
Seq. No.
Seq. ID
                  LIB3168-034-P1-K1-H9
                  BLASTN
Method
NCBI GI
                  g2924257
                  55
BLAST score
E value
                  2.0e-22
                  87
Match length
                  91
% identity
NCBI Description Tobacco chloroplast genome DNA
```

Seq. No. 143968

Seq. ID LIB3168-035-P1-K1-A1

Method BLASTX
NCBI GI g231683
BLAST score 542
E value 1.0e-55

```
124
Match length
% identity
                  CALNEXIN HOMOLOG PRECURSOR >gi 421825_pir__JN0597
NCBI Description
                  calnexin-like protein - Arabidopsis thaliana
                  >gi_16211_emb_CAA79144_ (Z18242) calnexin homolog
                  [Arabidopsis thaliana]
                  143969
Seq. No.
                  LIB3168-035-P1-K1-A10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  610
E value
                  1.0e-63
Match length
                  122.
% identity
                  99
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{\text{liana}} >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143970
Seq. No.
                  LIB3168-035-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112743
BLAST score
                  547
E value
                  3.0e-56
Match length
                  119
% identity
                  86
NCBI Description
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi 395202 emb CAA80869
                   (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  143971
                  LIB3168-035-P1-K1-A12
Seq. ID
                  BLASTN
Method
NCBI GI
                  g3461810
BLAST score
                  174
E value
                  4.0e-93
Match length
                  304
                  97
% identity
                  Arabidopsis thaliana chromosome II BAC T17M13 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143972
                  LIB3168-035-P1-K1-A2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4522003
BLAST score
                  468
E value
                  1.0e-50
Match length
                  125
% identity
                  (AC007069) putative protein kinase [Arabidopsis thaliana]
NCBI Description
```

```
143973
Seq. No.
                  LIB3168-035-P1-K1-A5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  566
E value
                  2.0e-58
                  137
Match length
                  80
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >qi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                                5 %
Seq. No.
                  143974
Seq. ID
                  LIB3168-035-P1-K1-A6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  610
                  1.0e-63
E value
Match length
                  120
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143975
                  LIB3168-035-P1-K1-A7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  479
E value
                  3.0e-48
                  136
Match length
                  72
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143976
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-A8
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  441
E value
                  4.0e-44
                  91
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  143977
Seq. ID
                  LIB3168-035-P1-K1-B1
Method
                  BLASTX
NCBI GI
                  g3153205
BLAST score
                  365
E value
                  7.0e-35
                  71
Match length
                  100
% identity
                  (U80922) serine/threonine protein phosphatase type one
NCBI Description
                   [Arabidopsis thaliana]
                  143978
Seq. No.
                  LIB3168-035-P1-K1-B10
Seq. ID
                  BLASTN
Method
                  g2760168
NCBI GI
BLAST score
                  426
E value
                  0.0e+00
Match length
                  430
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MEE6, complete sequence [Arabidopsis thaliana]
Seq. No.
                  143979
                  LIB3168-035-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI-
                  g4262250
BLAST score
                  416
E value
                  7.0e-41
Match length
                  83
                  100
% identity
                  (AC006200) putative aldolase [Arabidopsis thaliana]
NCBI Description
                  143980
Seq. No.
                  LIB3168-035-P1-K1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
                  595
BLAST score
                  8.0e-62
E value
                  138
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  143981
Seq. No.
                  LIB3168-035-P1-K1-B4
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  546
                  3.0e-56
E value
                                  ÷: ,...
Match length
                  116
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
143982
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-B5
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  651
E value
                  2.0e-68
                  126
Match length
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143983
Seq. No.
                  LIB3168-035-P1-K1-B6
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  574
                  2.0e-59
E value
                  116
Match length
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143984
Seq. No.
                  LIB3168-035-P1-K1-B7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
                  521
BLAST score
                  3.0e-53
E value
Match length
                  133
                  77
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143985
Seq. No.
                  LIB3168-035-P1-K1-B9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2924505
BLAST score
                  389
                  0.0e + 00
E value
                  422
Match length
                  98
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone M4E13
NCBI Description
                  (ESSAII project)
                  143986
Seq. No.
                  LIB3168-035-P1-K1-C10
Seq. ID
Method
                  BLASTX
                  g112737
NCBI GI
                  454
BLAST score
                  3.0e-45
E value
                  134
Match length
                  70
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
```

PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor - Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_(AL035680) NWMU1-2S albumin 1.precursor [Arabidopsis thaliana]

Seq. No. 143987

Seq. ID LIB3168-035-P1-K1-C11

Method BLASTN
NCBI GI g2842474
BLAST score 266
E value 1.0e-148
Match length 266
% identity 100

NCBI Description Arabidopsis thaliana DNA chromosome 4, BAC clone F2009

(ESSAII project)

Seq. No. 143988

Seq. ID LIB3168-035-P1-K1-C12

Method BLASTX
NCBI GI g112682
BLAST score 523
E value 2.0e-53
Match length 112
% identity 88

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 143989

Seq. ID LIB3168-035-P1-K1-C2

Method BLASTX
NCBI GI g112682
BLAST score 586
E value 9.0e-61
Match length 138
% identity 80

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

182

storage protein [Arabidopsis thaliana]

Seq. No. 143990

Seq. ID LIB3168-035-P1-K1-C4

Method BLASTN
NCBI GI g3047074
BLAST score 242
E value 1.0e-133
Match length 394
% identity 92

NCBI Description Arabidopsis thaliana BAC F21E10

Seq. No. 143991

17809

```
LIB3168-035-P1-K1-C6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  589
                  3.0e-61
E value
Match length
                  119
% identity
                  96
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  143992
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  g4539293
BLAST score
                  615
                  3.0e-64
E value
Match length
                  140
% identity
                  86
                   (AL049480) putative membrane transporter [Arabidopsis
NCBI Description
                  thaliana]
                  143993
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  592
                  1.0e-61
E value
Match length
                  116
                  97
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  143994
                  LIB3168-035-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4512675
BLAST score
                  451
E value
                  6.0e-45
                  121
Match length
                  76
% identity
                  (AC006931) putative citrate synthase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  143995
Seq. ID
                  LIB3168-035-P1-K1-D1
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

143996

Seq. No.

```
Seq. ID
                   LIB3168-035-P1-K1-D10
Method
                   BLASTX
NCBI GI
                   q4678261
BLAST score
                   535
E value
                   3.0e-56
Match length
                   120
% identity
NCBI Description
                   (AL049657) putative proteasome regulatory subunit
                   [Arabidopsis thaliana]
Seq. No.
                   143997
Seq. ID
                   LIB3168-035-P1-K1-D11
Method
                   BLASTX
NCBI GI
                   q112682
BLAST score
                   342
E value
                   1.0e-32
Match length
                   79
% identity
                   81
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   143998
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-D12
Method
                   BLASTN
NCBI GI
                   g2244788
BLAST score
                  197
E value
                   1.0e-107
Match length
                   375
                   97
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
                   fragment No
Seq. No.
                  143999
Seq. ID
                  LIB3168-035-P1-K1-D2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  616
E value
                  2.0e-64
Match length
                  126
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-D3
Method
                  BLASTN
NCBI GI
                  q4580386
BLAST score
                  227
E value
                  1.0e-124
Match length
                  418
% identity
                  100
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T8018 genomic
```

sequence, complete sequence

```
Seq. No.
                  144001
Seq. ID
                  LIB3168-035-P1-K1-D4
                  BLASTN
Method
                  g3264774
NCBI GI
BLAST score
                  141
E value
                  2.0e-73
                  338
Match length
                  97
% identity
                  Arabidopsis thaliana BAC T8A17 chromosome IV, complete
NCBI Description
                  sequence [Arabidopsis thaliana]
Seq. No.
                  144002
Seq. ID
                  LIB3168-035-P1-K1-D5
Method
                  BLASTN
NCBI GI
                  g166609
BLAST score
                  107
E value
                  1.0e-53
                  107
Match length
                  100
% identity
                  A.thaliana at 2S1 gene encoding albumin 2S subunit 1,
NCBI Description
                  complete cds
                  144003
Seq. No.
                  LIB3168-035-P1-K1-D6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  367
E value
                  2.0e-35
                  87
Match length
                  84
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144004
                  LIB3168-035-P1-K1-D7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
                  229
BLAST score
                  3.0e-19
E value
                  79
Match length
                  61
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144005
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-D9
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  369
E value
                  1.0e-36
```

Seq. ID

```
Match length
                  96
% identity
                  89
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144006
Seq. No.
                  LIB3168-035-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  474
E value
                  9.0e-48
Match length
                  115
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144007
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-E10
Method
                  BLASTN
                  g2842474
NCBI GI
BLAST score
                  287
E value
                  1.0e-160
Match length
                  343
% identity
                  97
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
Seq. No.
                  144008
                  LIB3168-035-P1-K1-E11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  657
E value
                  4.0e-69
Match length
                  127
% identity
                  99
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144009
Seq. ID
                  LIB3168-035-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  656
E value
                  5.0e-69
Match length
                  131
% identity
                  97
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144010
```

LIB3168-035-P1-K1-E2

Seq. No. Seq. ID

Method

```
Method
                    BLASTX
 NCBI GI
                    g3170525
 BLAST score
                    413
                    2.0e-40
 E value
 Match length
                    101
 % identity
                    79
                   (AF054615) cellulase [Fragaria x ananassa]
 NCBI Description
                    144011
 Seq. No.
                    LIB3168-035-P1-K1-E3
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g2129657
 BLAST score
                    340
 E value
                    6.0e-32
 Match length
                    98
                    74
 % identity
 NCBI Description
                    oleosin isoform - Arabidopsis thaliana
                    >gi 987014 emb_CAA90877 (Z54164) oleosin [Arabidopsis
                    thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                    [Arabidopsis thaliana]
                    144012
 Seq. No.
 Seq. ID
                   LIB3168-035-P1-K1-E5
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    332
                    2.0e-31
 E value
 Match length
                    82
 % identity
                    83
 NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                    144013
                    LIB3168-035-P1-K1-E6
· Seq. ID
 Method
                    BLASTN
 NCBI GI
                    g166569
 BLAST score
                    102
 E value
                    1.0e-50
 Match length
                    142
                    93
 % identity
                   Arabidopsis thaliana glycine rich protein (RAB18) gene,
 NCBI Description
                   complete cds
 Seq. No.
                    144014
                   LIB3168-035-P1-K1-E7
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                    g4678285
 BLAST score
                   166
 E value
                    8.0e-12
                    49
 Match length
 % identity
 NCBI Description (AL049660) putative protein [Arabidopsis thaliana]
                    144015
```

17814

LIB3168-035-P1-K1-E8

BLASTX

```
NCBI GI
                  g1628583
BLAST score
                  565
                  2.0e-58
E value
                  127
Match length
% identity
                  87
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144016
Seq. ID
                  LIB3168-035-P1-K1-E9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  486
E value
                  2.0e-49
Match length
                  97
% identity
                  96
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144017
Seq. ID
                  LIB3168-035-P1-K1-F1
                  BLASTX
Method ·
NCBI GI
                  g112681
BLAST score
                  564
E value
                  3.0e-58
Match length
                  119
                  90
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144018
Seq. ID
                  LIB3168-035-P1-K1-F12
Method
                  BLASTN -
NCBI GI
                  g16236
BLAST score
                  86
                  8.0e-41
E value
Match length
                  173
                  87
% identity
NCBI Description
                  Arabidopsis CRB gene for 12S seed storage protein
                  >gi 166677 gb M37248 ATHCRBAA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  144019
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  g2605714
                  43 -
BLAST score
                  1.0e-12
E value
Match length
                  54
% identity
NCBI Description
                  (AF026275) beta-tonoplast intrinsic protein [Arabidopsis
```

thaliana]

```
144020
 Seq. No.
 Seq. ID
                   LIB3168-035-P1-K1-G1
Method
                   BLASTX
 NCBI GI
                   g112681
 BLAST score
                   560
E value
                   9.0e-58
Match length
                   131
                   83
 % identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
 Seq. No.
                   144021
 Seq. ID
                   LIB3168-035-P1-K1-G10
Method
                   BLASTX ·
NCBI GI
                   g112681
BLAST score
                   541
                   1.0e-55
E value
Match length
                   110
                   97
 % identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144022
Seq. No.
Seq. ID
                   LIB3168-035-P1-K1-G11
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   51
E value
                   3.0e-67
                   129
Match length
% identity
                   98
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   144023
Seq. ID
                   LIB3168-035-P1-K1-G2
Method
                   BLASTX
NCBI GI
                   g3695023
BLAST score
                   599
E value
                   2.0e-62
Match length
                   115
% identity
NCBI Description
                  (AF055850) unknown [Arabidopsis thaliana]
Seq. No.
                   144024
                   LIB3168-035-P1-K1-G3
Seq. ID
```

```
Method
                  BLASTX
NCBI GI
                  g4056489
BLAST score
                  443
                  5.0e-44
E value
                  111
Match length
                  72
% identity
NCBI Description
                  (AC005896) putative white protein [Arabidopsis thaliana]
Seq. No.
                  144025
                  LIB3168-035-P1-K1-G4
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112681
BLAST score
                  538
E value
                  4.0e-55
                  144
Match length
                  78
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144026
Seq. No.
                  LIB3168-035-P1-K1-G5
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3510339
                  226
BLAST score
                  1.0e-124
E value
                  258
Match length
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K3K7, complete sequence [Arabidopsis thaliana]
                  144027
Seq. No.
Seq. ID
                  LIB3168-035-P1-K1-G6
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  542
E value
                  1.0e-55
Match length
                  116
                  92
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144028
                  LIB3168-035-P1-K1-G7
Seq. ID
                  BLASTX
Method
```

Method BLASTX
NCBI GI g112681
BLAST score 323
E value 3.0e-30
Match length 90
% identity 70
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

## storage protein [Arabidopsis thaliana]

```
144029
 Seq. No.
 Seq. ID
                   LIB3168-035-P1-K1-G8
Method
                   BLASTN
NCBI GI
                   q2924257
BLAST score
                   51
                   8.0e-20
E value
                   219
Match length
                   85
 % identity
NCBI Description Tobacco chloroplast genome DNA
                   144030
Seq. No.
                   LIB3168-035-P1-K1-H1
Seq. ID
                   BLASTX
Method
NCBI GI
                   q3913418
BLAST score
                   738
E value
                   1.0e-78
Match length
                   141
% identity
                   99
                   S-ADENOSYLMETHIONINE DECARBOXYLASE PROENZYME (ADOMETDC)
NCBI Description
                   (SAMDC) >gi_1531763_emb_CAA69073 (Y07765)
                   S-adenosylmethionine decarboxylase [Arabidopsis thaliana]
                   144031
Seq. No.
Seq. ID
                   LIB3168-035-P1-K1-H10
Method
                   BLASTN
NCBI GI
                   g4199934
BLAST score
                   225
                   1.0e-123
E value
Match length
                   241
                   98
% identity
                   Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   144032
Seq. No.
Seq. ID
                   LIB3168-035-P1-K1-H11
Method
                   BLASTX
                   g1628583
NCBI GI
BLAST score
                   638
E value
                   6.0e-67
Match length
                   125
                   98
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144033
Seq. No.
Seq. ID
                   LIB3168-035-P1-K1-H12
Method
                  BLASTX
NCBI GI
                   g112737
BLAST score
                   299 .
E value
                   4.0e-27
Match length
                   129
% identity
                   52
NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
```

Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi 395204 emb\_CAA80870 (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi 4490710 emb CAB38844.1\_ (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana]

Seq. No. 144034 Seq. ID LIB3168-035-P1-K1-H2 Method BLASTX NCBI GI q1628583

BLAST score 661 1.0e-69 E value 133 Match length 95 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144035

LIB3168-035-P1-K1-H3 Seq. ID

Method BLASTN NCBI GI g4376087 BLAST score 241 E value 1.0e-133 Match length 352 98 % identity

Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig NCBI Description

fragment No

144036 Seq. No.

Seq. ID LIB3168-035-P1-K1-H6

Method BLASTN NCBI GI q4159703 BLAST score 31 E value 1.0e-08 Match length 58

% identity

NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:

K5F14, complete sequence

Seq. No. 144037

Seq. ID LIB3168-035-P1-K1-H7

Method BLASTX NCBI GI g112741 BLAST score 482 E value 2.0e-50 Match length 111 % identity 93

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor -

Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

144038 Seq. No.

```
LIB3168-036-P1-K1-A10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  568.
                  1.0e-58
E value
Match length
                  150
% identity
                  75
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  144039
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-A2
                  BLASTX
Method
NCBI GI
                  g1628583
                  734
BLAST score
E value
                  4.0e-78
                  154
Match length
% identity
                  93
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144040
                  LIB3168-036-P1-K1-A3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  878
E value
                  7.0e-95
Match length
                  179
% identity
                  94
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144041
Seq. ID
                  LIB3168-036-P1-K1-A4
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  619
E value
                  1.0e-64
                  120
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144042
                  LIB3168-036-P1-K1-A5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2924779
BLAST score
                  711
E value
                  2.0e-75
```

```
Match length
                   141
                   99
 % identity
 NCBI Description
                   (ACO02334) putative 3-ketoacyl-CoA thiolase [Arabidopsis
                   thaliana] >gi 2981616 dbj BAA25248 (AB008854)
                   3-ketoacyl-CoA thiolase [Arabidopsis thaliana]
                   >gi 2981618 dbj BAA25249 (AB008855) 3-ketoacyl-CoA
                   thiolase [Arabidopsis thaliana]
                   144043
 Seq. No.
 Seq. ID
                   LIB3168-036-P1-K1-A8
 Method
                   BLASTX
 NCBI GI
                   q112682
 BLAST score
                   257
                   8.0e-23
 E value
                   69
 Match length
                   74
 % identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
 NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
 Seq. No.
                   144044
 Seq. ID
                   LIB3168-036-P1-K1-A9
 Method
                   BLASTX
 NCBI GI
                   q1628583
 BLAST score
                   617
                   2.0e-64
 E value
Match length
                   131
                   92
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                   144045
                   LIB3168-036-P1-K1-B1
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g1628583
 BLAST score
                   579
 E value
                   7.0e-60
Match length
                   117
                   99
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144046
 Seq. No.
                   LIB3168-036-P1-K1-B10
 Seq. ID
Method
                   BLASTN
NCBI GI
                   g4646215
BLAST score
                   102
E válue
                   6.0e-50
                   487
Match length
 % identity
NCBI Description
                   Arabidopsis thaliana chromosome II BAC T22013 genomic
```

sequence, complete sequence

```
Seq. No.
                  144047
Seq. ID
                  LIB3168-036-P1-K1-B12
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  717
E value
                  5.0e-76
Match length
                  159
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >qi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144048
Seq. No.
                  LIB3168-036-P1-K1-B2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g166410
BLAST score
                  306
E value
                  4.0e-30
                  123
Match length
% identity
                  59
                  (L07291) Alfin-1 [Medicago sativa]
NCBI Description
Seq. No.
                  144049
                  LIB3168-036-P1-K1-B4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3047060
BLAST score
                  238
E value
                  1.0e-131
                  274
Match length
                  97
% identity
                  Arabidopsis thaliana BAC F7N22
NCBI Description
Seq. No.
                  144050
Seq. ID
                  LIB3168-036-P1-K1-B5
Method
                  BLASTX
NCBI GI
                  g1076442
BLAST score
                  595
E value
                  1.0e-61
Match length
                  133
% identity
                  beta-glucosidase (EC 3.2.1.21) - rape
NCBI Description
                  >gi 757740 emb CAA57913 (X82577) beta-glucosidase
                  [Brassica napus]
                  144051
Seq. No.
                  LIB3168-036-P1-K1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  367
                  9.0e-52
E value
                  151
Match length
                  77
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
```

>gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis

Seq. No.

Seq. ID Method

NCBI GI

E value

BLAST score

```
storage protein [Arabidopsis thaliana]
                  144052
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-B7
Method
                  BLASTX
                  g112681
NCBI GI
                  727
BLAST score
                  4.0e-77
E value
                  179
Match length
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144053
                  LIB3168-036-P1-K1-B8 ·
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  621
E value
                  9.0e-65 ·
Match length
                  119
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144054
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-C1
Method
                  BLASTN
NCBI GI
                  g3461810
BLAST score
                  44
E value
                  3.0e-16
Match length
                  52
                  96
% identity
                  Arabidopsis thaliana chromosome II BAC T17M13 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  144055
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-C10
Method
                  BLASTX
NCBI GI
                  g3341679
                  672
BLAST score
                  9.0e-71
E value
                  160
Match length
% identity
NCBI Description
                  (AC003672) dynamin-like protein phragmoplastin 12
                  [Arabidopsis thaliana]
                  144056
```

thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

LIB3168-036-P1-K1-C11

BLASTX

664

q1402904

6.0e-70

Seq. ID

Method

```
Match length
                   127
% identity
                   100
NCBI Description (X98313) peroxidase [Arabidopsis thaliana]
                   144057
Seq. No.
Seq. ID
                   LIB3168-036-P1-K1-C12
Method
                   BLASTX
NCBI GI
                   q3738288
                   711
BLAST score
                   2.0e-75
E value
Match length
                   145
% identity
                   97
                   (AC005309) auxin-responsive GH3-like protein [Arabidopsis
NCBI Description
                   thaliana]
                   144058
Seq. No.
Seq. ID
                   LIB3168-036-P1-K1-C2
Method
                   BLASTX
NCBI GI
                   g114532
BLAST score
                   403
                   4.0e-39
E value
                   92
Match length
% identity
                   ATP SYNTHASE ALPHA CHAIN >gi 67824 pir PWNTA
NCBI Description
                   H+-transporting ATP synthase (EC 3.6.1.34) alpha chain -
                   common tobacco chloroplast >gi_11769_emb_CAA23471_ (V00162)
                   alpha subunit of ATPase [Nicotiana tabacum]
                   >gi_11811_emb_CAA77341_ (200044) ATPase alpha subunit
[Nicotiana tabacum] >gi_225270_prf__1211235E ATPase alpha
                   [Nicotiana tabacum]
                   144059
Seq. No.
                   LIB3168-036-P1-K1-C4
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1946355
BLAST score
                   250
                   3.0e-21
E value
                   104
Match length
                   48
% identity
                   (U93215) maize transposon MuDR mudrA protein isolog
NCBI Description
                   [Arabidopsis thaliana] >gi_2880040 (AC002340) maize
                   transposon MuDR mudrA-like protein [Arabidopsis thaliana]
                   144060
Seq. No.
Seq. ID
                   LIB3168-036-P1-K1-C5
Method
                   BLASTX
NCBI GI
                   q2708747
BLAST score
                   459
                   4.0e-46
E value
Match length
                   95
                   95
% identity
                   (AC003952) putative glycine-rich, zinc-finger DNA-binding
NCBI Description
                   protein [Arabidopsis thaliana]
Seq. No.
                   144061
```

LIB3168-036-P1-K1-C6

BLASTX

BLAST score

585

```
NCBI GI
                  q1628583
BLAST score
                  686
                  2.0e-72
E value
                  135
Match length
                  97
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144062
Seq. No.
                  LIB3168-036-P1-K1-C8
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1169598
BLAST score
                  869
                  8.0e-94
E value
                  170
Match length
                  92
% identity
                  OMEGA-6 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                   (DELTA-12 DESATURASE) >gi 438451 (L26296) delta-12
                  desaturase [Arabidopsis thaliana]
                  144063
Seq. No.
                  LIB3168-036-P1-K1-C9
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4572664
BLAST score
                  93
E value
                  4.0e-45
                  137
Match length
% identity
                  92
                  Arabidopsis thaliana chromosome II BAC F25P17 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  144064
Seq. ID
                  LIB3168-036-P1-K1-D1
Method
                  BLASTX
NCBI GI.
                  g1694711
BLAST score
                  358
                  2.0e-34
E value
Match length
                  83
% identity
                  (Y09581) FRO1 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144065
Seq. ID
                  LIB3168-036-P1-K1-D11
Method
                  BLASTX
NCBI GI
                  g1063415
BLAST score
                  607
                  3.0e-63
E value
Match length
                  116
                  99
% identity
                  (L40948) K+ channel protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144066
Seq. ID
                  LIB3168-036-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  g112681
```

```
8.0e-61
E value
Match length
                  116
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144067
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-D2
                  BLASTN
Method
NCBI GI
                  q633027
                  390
BLAST score
                  0.0e + 00
E value
                  446
Match length
                  97
% identity
                  Arabidopsis thaliana mRNA for protein phosphatase 2C
NCBI Description
                  144068
Seq. No.
                  LIB3168-036-P1-K1-D4
Seq. ID
Method
                  BLASTX
                  q3377797
NCBI GI
BLAST score
                  405
E value
                  1.0e-39
                  92
Match length
                  87
% identity
                  (AF075597) Similar to 60S ribosome protein L19; coded for
NCBI Description
                  by A. thaliana cDNA T04719; coded for by A. thaliana cDNA
                  H36046; coded for by A. thaliana cDNA T44067; coded for by
                  A. thaliana cDNA T14056; coded for by A. thaliana cDNA
                  R90691 [Ara
Seq. No.
                  144069
Seq. ID
                  LIB3168-036-P1-K1-D7
Method
                  BLASTX.
NCBI GI
                  q112682
BLAST score
                  710
                  3.0e-75
E value
                  160
Match length
                  84
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144070
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-D8
                  BLASTX
Method
NCBI GI
                  q4432860
BLAST score
                  860
                  9.0e-93
E value
                  180
Match length
                  36
% identity
                  (AC006300) putative glucose-induced repressor protein
NCBI Description
```

[Arabidopsis thaliana]

```
Seq. No.
                  144071
Seq. ID
                  LIB3168-036-P1-K1-D9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  228
                  1.0e-18
E value
                  97
Match length
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144072
Seq. ID
                  LIB3168-036-P1-K1-E1
Method
                  BLASTN
NCBI GI
                  g4159712
BLAST score
                  391
E value
                  0.0e+00
Match length
                  441
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MWI23, complete sequence
                  144073
Seq. No.
                  LIB3168-036-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144074
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  257
E value
                  4.0e-22
Match length
                  157
% identity
                  77
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144075
Seq. ID
                  LIB3168-036-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  578
E value
                  7.0e-60
Match length
                  142
% identity
                  80
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

Match length

131

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]
```

```
144076
 Seq. No.
                    LIB3168-036-P1-K1-E4
 Seq. ID
                    BLASTX
Method
NCBI GI
                    q4337025
BLAST score
                    516
E value
                    9.0e-53
Match length
                    105
 % identity
                    98
                    (AF123253) AIM1 protein [Arabidopsis thaliana]
NCBI Description
 Seq. No.
                    144077
 Seq. ID
                    LIB3168-036-P1-K1-E5
Method
                    BLASTX
NCBI GI
                    g112682
 BLAST score
                    548
E value
                    2.0e-56
Match length
                    118
                    87
 % identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    144078
                    LIB3168-036-P1-K1-E6
 Seq. ID
                    BLASTX
Method
NCBI GI
                    g1169598
BLAST score
                    333
E value
                    3.0e - 31
                    79
Match length
 % identity
                    80
                    OMEGA-6 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                  (DELTA-12 DESATURASE) >gi 438451 (L26296) delta-12
                    desaturase [Arabidopsis thaliana]
Seq. No.
                    144079
                    LIB3168-036-P1-K1-E7
Seq. ID
Method
                    BLASTN
NCBI GI
                    g3510339
BLAST score
                    462
E value
                    0.0e + 00
                    494
Match length
                    98
 % identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                    K3K7, complete sequence [Arabidopsis thaliana]
                    144080
Seq. No.
Seq. ID
                    LIB3168-036-P1-K1-F1
Method
                    BLASTX
. NCBI GI
                    g1628583
BLAST score
                    666
E value
                    3.0e-70
```

```
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144081
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-F10
                  BLASTX
Method
                  g4204298
NCBI GI
                  600
BLAST score
E value
                  2.0e-62
Match length
                  149
                  79
% identity
                  (AC003027) lcl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
                  144082
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  q3914541
BLAST score
                  490
                  2.0e-49
E value
Match length
                  113
% identity
                  84
                  RIBULOSE BISPHOSPHATE CARBOXYLASE LARGE CHAIN PRECURSOR
NCBI Description
                  (RUBISCO LARGE SUBUNIT) >gi 1928872 (U91966)
                  ribulose-1,5-bisphosphate carboxylase/oxygenase large
                  subunit [Arabidopsis thaliana]
                  144083
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-F2
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  816
E value
                  1.0e-87
Match length
                  161
                  97
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144084
Seq. ID
                  LIB3168-036-P1-K1-F4
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  579
E value
                  5.0e-60
Match length
                  124
% identity
                  88
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi_808937 emb CAA32494 (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  144085
Seq. ID
                  LIB3168-036-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  g2583125 ·
BLAST score
                  633
                  7.0e-69
E value
Match length
                  132
% identity
                  99
                  (AC002387) putative transketolase precursor [Arabidopsis
NCBI Description
                  thalianal
                  144086
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  49
                  5.0e-61
E value
Match length
                  123
% identity
                  99
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144087
Seq. ID
                  LIB3168-036-P1-K1-F7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  3.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144088
Seq. ID
                  LIB3168-036-P1-K1-F8
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  510
E value
                  2.0e-54
Match length
                  151
                  76
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144089
                  LIB3168-036-P1-K1-G1
Seq. ID
Method
                  BLASTN
                  g4079614
NCBI GI
BLAST score
                  111
                  6.0e-56
E value
```

Method

BLASTN

```
143
Match length
                   94
% identity
NCBI Description
                  Arabidopsis thaliana chromosome I BAC F21M11 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   144090
Seq. ID
                  LIB3168-036-P1-K1-G10
Method
                  BLASTX
NCBI GI
                   g2129657
BLAST score
                   458
E value
                   9.0e-46
Match length
                   121
                   79
% identity
                  oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
                   thaliana] \overline{>}gi_{987016\_emb\_CAA90878\_} (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                  144091
Seq. ID
                  LIB3168-036-P1-K1-G11
Method
                  BLASTN
NCBI GI
                  g4732166
BLAST score
                  340
                   0.0e+00
E value
                   488
Match length
                   29
% identity
NCBI Description
                  Arabidopsis thaliana BAC F21I2
Seq. No.
                  144092
Seq. ID
                  LIB3168-036-P1-K1-G12
Method
                  BLASTX
NCBI GI
                  g1352463
BLAST score
                   601
E value
                  1.0e-62
                  121
Match length
                   96
% identity
                  MYO-INOSITOL-1-PHOSPHATE SYNTHASE (IPS) >gi 1161312
NCBI Description
                   (U04876) myo-inositol-1-phosphate synthase [Arabidopsis
                  thaliana]
                  144093
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-G2
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  558
                  2.0e-57
E value
Match length
                  126
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144094
                  LIB3168-036-P1-K1-G3
Seq. ID
```

1.15

```
g3746057
NCBI GI
BLAST score
                  294
                  1.0e-164
E value
                  359
Match length
                  94
% identity
                  Arabidopsis thaliana chromosome II BAC T16B12 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  144095
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-G4
                  BLASTX
Method
                  g2583125
NCBI GI
BLAST score
                  758
E value
                  6.0e-81
Match length
                  148
                  91
% identity
                  (AC002387) putative transketolase precursor [Arabidopsis
NCBI Description
                  thaliana]
                  144096
Seq. No.
                  LIB3168-036-P1-K1-G5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  717
E value
                  5.0e-76
                  159
Match length
                  84
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144097
Seq. No.
                  LIB3168-036-P1-K1-G6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  259
E value
                  9.0e-77
Match length
                  164
                  90
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144098
Seq. No.
                  LIB3168-036-P1-K1-G7
Seq. ID
                 BLASTN
Method
NCBI GI
                  g395203
BLAST score
                  111 -
                  4.0e-56
E value
                  111
Match length
% identity
                  53
NCBI Description A.thaliana 2S albumin gene isoforms 1 and 2, complete CDS's
```

```
144099
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                   3.0e-67
Match length
                  123
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144100
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                   622
                   6.0e-65
E value
Match length
                  126
% identity
                  93
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144101
Seq. No.
                  LIB3168-036-P1-K1-H11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4159706
BLAST score
                  107
E value
                  3.0e-53
Match length
                  111
% identity
                  99
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MGL6, complete sequence
                  144102
Seq. No.
                  LIB3168-036-P1-K1-H12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2961390
BLAST score
                  584
E value
                  1.0e-60
Match length
                  117
% identity
                   (AL022141) beta-galactosidase like protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  144103
                  LIB3168-036-P1-K1-H2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3128136
                  393
BLAST score
E value
                  0.0e + 00
Match length
                  507
% identity
                  97
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
```

1. .

NCBI GI

BLAST score

q4741184

183

## K1F13, complete sequence [Arabidopsis thaliana]

```
Seq. No.
                  144104
Seq. ID
                  LIB3168-036-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  q3757514
BLAST score
                  563
E value
                  5.0e-60
Match length
                  121
                                                                             Œ.
% identity
                  98
NCBI Description
                  (AC005167) putative plasma membrane intrinsic protein
                  [Arabidopsis thaliana]
                  >gi 4581129 gb AAD24619.1 AC005825_26 (AC005825) putative
                  plasma membrane intrinsic protein [Arabidopsis thaliana]
Seq. No.
                  144105
Seq. ID
                  LIB3168-036-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  654
                  8.0e-69
E value
Match length
                  129
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144106
                  LIB3168-036-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  371
                  6.0e-36
E value
Match length
                  86
% identity
                  85
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144107
Seq. ID
                  LIB3168-036-P1-K1-H6
Method
                  BLASTN
NCBI GI
                  q4159706
BLAST score
                  284
E value
                  1.0e-158
                  409
Match length
% identity
                  99
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MGL6, complete sequence
                                                                             4.7
                  144108
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-H7
Method
                  BLASTN
```

% identity

35

```
E value
                   2.0e-98
Match length
                   465
% identity
                  Arabidopsis thaliana DNA chromosome 3, BAC clone T23J7
NCBI Description
                   (ESSA project)
                   144109
Seq. No.
Seq. ID
                  LIB3168-036-P1-K1-H8
Method
                   BLASTX
NCBI GI
                   g2129659
BLAST score
                   200
                   9.0e-16
E value
                   93
Match length
% identity
                   51
                  oleosin, isoform 21K - Arabidopsis thaliana >gi_725260
NCBI Description
                   (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                  144110
                  LIB3168-036-P1-K1-H9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                   479
E value
                   2.0e-48
Match length
                  103
                   92
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144111
Seq. ID
                  LIB3168-037-P1-K1-A11
Method
                  BLASTX
NCBI GI
                  g3540190
BLAST score
                  204
E value
                  7.0e-16
Match length
                  139
% identity
                  (AC004122) Hypothetical protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144112
Seq. ID
                  LIB3168-037-P1-K1-A12
Method
                  BLASTN
NCBI GI
                  g4325365
BLAST score
                  60
E value
                  5.0e-25
Match length
                  136
                  46
% identity
NCBI Description Arabidopsis thaliana BAC T3H13
Seq. No.
                  144113
Seq. ID
                  LIB3168-037-P1-K1-A3
Method
                  BLASTN
NCBI GI
                  g511598
BLAST score
                  261
E value
                  1.0e-145
Match length
                  322
```

```
Arabidopsis thaliana cell wall protein (APTR-1) gene,
NCBI Description
                  complete cds
                  144114
Seq. No.
                  LIB3168-037-P1-K1-A4
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
                  330
BLAST score
E value
                  2.0e-31
                  70
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144115
                  LIB3168-037-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  610
E value
                  2.0e-63
Match length
                  155
                  76
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144116
                  LIB3168-037-P1-K1-A6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3510347
                  179
BLAST score
                   6.0e-96
E value
Match length
                  427
% identity
                   97
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MSJ11, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144117
Seq. ID
                  LIB3168-037-P1-K1-A7
Method
                  BLASTN
NCBI GI
                  g3075383
BLAST score
                  276
                  1.0e-154
E value
                   406
Match length
% identity
                  95
                  Arabidopsis thaliana chromosome II BAC T1D16 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  144118
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-A8
Method
                  BLASTN
NCBI GI
                  g1483217
                  424
BLAST score
                  0.0e + 00
E value
Match length
                  492
```

98

% identity

Seq. ID Method

BLASTX

```
NCBI Description A.thaliana gene induced upon wounding stress
                  144119
Seq. No.
                  LIB3168-037-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3169059
                  208
BLAST score
                  1.0e-16
E value
                  81
Match length
                  49
% identity
                  (AL023704) weak similarity to B.subtilis spore outgrowth f
NCBI Description
                  actor B [Schizosaccharomyces pombe]
                  144120
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-B1
Method
                  BLASTX
NCBI GI
                  g4204299
BLAST score
                  174
                  4.0e-13
E value
                  43
Match length
% identity
                  (AC003027) lcl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  144121
Seq. ID
                  LIB3168-037-P1-K1-B10
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  590
                  3.0e-61
E value
Match length
                  155
% identity
                  79
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{1}iana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144122
                  LIB3168-037-P1-K1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  378
E value
                  3.0e-36
Match length
                  150
                  54
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >qi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (224745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144123
                  LIB3168-037-P1-K1-B3
```

```
g1628583
NCBI GI
BLAST score
                  418
E value
                  2.0e-41
Match length
                  9.5
% identity
                  83
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144124
                  LIB3168-037-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2194125
BLAST score
                  230
E value
                  6.0e-19
Match length
                  59
% identity
NCBI Description
                  (AC002062) ESTs gb R30459, gb N38441 come from this gene.
                  [Arabidopsis thaliana]
                  144125
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-B6
                  BLASTN
Method
                  q4185120
NCBI GI
BLAST score
                  254
                  1.0e-140
E value
Match length
                  437
% identity
                  Arabidopsis thaliana chromosome 1 BAC F5F19 sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  144126
Seq. ID
                  LIB3168-037-P1-K1-B7
                  BLASTX
Method
                  q112681
NCBI GI
BLAST score
                  631
                  5.0e-66
E value
Match length
                  144
% identity
                  85
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144127
                  LIB3168-037-P1-K1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  510
                  5.0e-52
E value
                  113
Match length
% identity
                  84
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir $08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
```

thaliana] >gi 808937 emb CAA32494 (X14313) 12S séed

## storage protein [Arabidopsis thaliana]

```
144128
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-C1
Method
                  BLASTX
NCBI GI
                  q4263704
BLAST score
                  211
E value
                  7.0e-17
Match length
                  74
                  49
% identity
                  (AC006223) putative sugar starvation-induced protein
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  144129
Seq. ID
                  LIB3168-037-P1-K1-C10
Method
                  BLASTX
NCBI GI
                  q4234941
BLAST score
                  268
                                          5
E value
                  5.0e-24
Match length
                  68
% identity
NCBI Description
                  (AF097938) cytosolic phosphoglucomutase [Populus tremula x
                  Populus tremuloides]
Seq. No.
                  144130
                  LIB3168-037-P1-K1-C11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  543
E value
                  8.0e-56
Match length
                  126
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144131
Seq. ID
                  LIB3168-037-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  g4204299
BLAST score
                  603
E value
                  1.0e-62
Match length
                  120
% identity
                  (AC003027) 1cl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
                  144132
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-C2
Method
                  BLASTX
NCBI GI
                  g1628583
                  59
BLAST score
E value
                  4.0e-27
Match length
                  76
% identity
                  75
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

Match length

123

### cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  229
E value
                  4.0e-19
Match length
                  89
                  57
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144134
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-C4
Method
                  BLASTN
NCBI GI
                  q4581103
BLAST score
                  223
                  1.0e-122
E value
                  440
Match length
% identity
                  94
                  Arabidopsis thaliana chromosome II BAC T24I21 genomic
NCBI Description
                  sequence, complete sequence
                  144135
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-C5
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  485
E value
                  4.0e-49
Match length
                  101
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144136
                  LIB3168-037-P1-K1-C6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1107501
BLAST score
                  477
E value
                  5.0e-48
Match length
                  124
% identity
NCBI Description
                  (X91954) orf [Arabidopsis thaliana] >gi 3367530 (AC004392)
                  Match to gb X91954 orf gene product from A. thaliana. ESTs
                  gb_Z17604, gb_H76594, gb_AA597972 and gb_AA394824 come from
                  this gene. [Arabidopsis thaliana]
Seq. No.
                  144137
Seq. ID
                  LIB3168-037-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  573
E value
                  4.0e-59
```

```
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144138
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-C8
Method.
                  BLASTX
                  q4263704
NCBI GI
BLAST ,score
                  218
                  2.0e-17
E value
Match length
                  75
% identity
                  (AC006223) putative sugar starvation-induced protein
NCBI Description
                  [Arabidopsis thaliana]
                  144139
Seq. No.
                  LIB3168-037-P1-K1-C9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3023848
BLAST score
                  614
                  5.0e-64
E value
                  131
Match length
                  49
% identity
                  GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE
NCBI Description
                  PROTEIN (WD-40 REPEAT AUXIN-DEPENDENT PROTEIN ARCA)
                  >gi 2289095 (U77381) WD-40 repeat protein [Arabidopsis
                  thaliana]
                  144140
Seq. No.
                  LIB3168-037-P1-K1-D1
Seq. ID
                  BLASTN
Method
NCBI GI
                  g3059018
BLAST score
                  107
E value
                  2.0e-53
                  179
Match length
                  90
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F1C12
NCBI Description
                  (ESSAII project)
                  144141
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-D10
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  733
                  7.0e-78
E value
                  165
Match length
                  84
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144142 -
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-D11
Method
                  BLASTX
```

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Seq. ID

```
NCBI GI
                   q1628583
BLAST score
                   561
                   6.0e-58
E value
Match length
                   117
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144143
Seq. No.
Seq. ID
                   LIB3168-037-P1-K1-D2
Method
                   BLASTX
NCBI GI
                   g2642441
BLAST score
                   397
E value
                   5.0e-39
Match length
                   80
% identity
                   (AC002391) putative cytochrome P450 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   144144
Seq. ID
                   LIB3168-037-P1-K1-D3
Method
                   BLASTN
NCBI GI
                   g2842474
BLAST score
                   40
E value
                   6.0e-14
Match length
                   72
% identity
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                   (ESSAII project)
                   144145
Seq. No.
Seq. ID
                   LIB3168-037-P1-K1-D4
Method
                   BLASTX
NCBI GI
                   g112681
                   97 _ -
BLAST score
E value
                   2.0e-44
Match length
                   107
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144146
Seq. No.
Seq. ID
                   LIB3168-037-P1-K1-D5
Method
                   BLASTN
NCBI GI
                   g3228389
BLAST score
                   269
E value
                   1.0e-150
Match length
                   313
% identity
                   Genomic sequence for Arabidopsis thaliana BAC F17L21,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
Seq. No.
                   144147
```

LIB3168-037-P1-K1-D6

```
Method
                  BLASTX
NCBI GI
                  q4006858
BLAST score
                  106
                  5.0e-32
E value
Match length
                  91
% identity
                  (Z99707) cold acclimation protein homolog [Arabidopsis
NCBI Description
                  144148
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-D7
Method
                  BLASTN
NCBI GI
                  q4519193
BLAST score
                  450
                  0.0e + 00
E value
Match length
                  458
% identity
                  52
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MDC11, complete sequence
Seq. No.
                  144149
                  LIB3168-037-P1-K1-D8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3395421
BLAST score
                  409
E value
                  0.0e + 00
Match length
                  421
% identity
                  99
                  Arabidopsis thaliana chromosome II BAC T19C21 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144150
Seq. ID
                  LIB3168-037-P1-K1-D9
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  518
E value
                  1.0e-52
Match length
                  151
% identity
                  70
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144151
Seq. ID
                  LIB3168-037-P1-K1-E1
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  354
E value
                  6.0e-34
Match length
                  89
% identity
                  80
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
```

cruciferin precursor (CRB) - Arabidopsīs thaliana

% identity

86

```
storage protein [Arabidopsis thaliana]
                  144152
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-E11
                  BLASTX
Method
NCBI GI
                  q3928086
                  79
BLAST score
                  2.0e-77
E value
Match length
                  156
% identity
                   96
                   (AC005770) unknown protein [Arabidopsis thaliana]
NCBI Description
                  144153
Seq. No.
                  LIB3168-037-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204299
BLAST score
                  816
E value
                  1.0e-87
                  178
Match length
                  88
% identity
                   (AC003027) 1cl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
                  144154
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-E3.
                  BLASTX
Method
                  g4006897
NCBI GI
BLAST score
                  539
E value
                   3.0e-55
Match length
                  138
% identity
                   76
                   (Z99708) globulin-like protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144155
Seq. ID
                  LIB3168-037-P1-K1-E4
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  676
E value
                  3.0e-71
Match length
                  159
% identity
                  80
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144156
Seq. No.
                  LIB3168-037-P1-K1-E5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3915847
BLAST score
                  273
E value
                  3.0e-24
Match length
                  63
```

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

. .

```
NCBI Description 40S RIBOSOMAL PROTEIN S2 >gi 2335095 (AC002339) putative
                  40S ribosomal protein S2 [Arabidopsis thaliana]
                  144157
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-E6
Method
                  BLASTN
NCBI GI
                  q4490324
                  306
BLAST score
                  1.0e-172
E value
                  390
Match length
                  95
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T9A14
NCBI Description
                  (ESSA project)
Seq. No.
                  144158
                  LIB3168-037-P1-K1-E7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g560770
BLAST score
                  500
E value
                  0.0e + 00
Match length
                  532
                  98
% identity
NCBI Description Arabidopsis thaliana rd22 gene, complete cds
Seq. No.
                  144159
Seq. ID
                  LIB3168-037-P1-K1-E8
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  102
E value
                  1.0e-56
                  120
Match length
                  91
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144160
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-E9
Method
                  BLASTX
NCBI GI
                  g4538963
BLAST score
                  70
E value
                  4.0e-52
Match length
                  138
% identity
NCBI Description
                  (AL049488) chlorophyll a/b-binding protein-like
                  [Arabidopsis thaliana] >gi 4741958 gb AAD28776.1_AF134129_1
                  (AF134129) Lhcb5 protein [Arabidopsis thaliana]
                  144161
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-F10
                  BLASTX
Method
NCBI GI
                  g11:2681
                  722
BLAST score
E value
                  1.0e-76
Match length
                  145
% identity
                  96
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
```

cruciferin precursor (CRA1) - Arabidopsis thaliana >gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi\_808936 emb\_CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana]

```
Seq. No. 144162
```

Seq. ID LIB3168-037-P1-K1-F11

Method BLASTX
NCBI GI g1628583
BLAST score 625
E value 3.0e-65
Match length 120
% identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144163

Seq. ID LIB3168-037-P1-K1-F12

Method BLASTX
NCBI GI g1628583
BLAST score 625
E value 3.0e-65
Match length 120
% identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. .144164

Seq. ID LIB3168-037-P1-K1-F2

Method BLASTX
NCBI GI g1669601
BLAST score 211
E value 4.0e-33
Match length 117
% identity 68

NCBI Description (D88747) AR401 [Arabidopsis thaliana]

Seq. No. 144165

Seq. ID LIB3168-037-P1-K1-F3

Method BLASTX
NCBI GI g1628583
BLAST score 543
E value 7.0e-56
Match length 108
% identity 96

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144166

Seq. ID LIB3168-037-P1-K1-F4

Method BLASTX
NCBI GI g267073
BLAST score 281
E value 2.0e-25

```
Match length
                  52
                  98
% identity
                  TUBULIN BETA-2/BETA-3 CHAIN >gi 320184 pir JQ1587 tubulin
NCBI Description
                  beta chain - Arabidopsis thaliana >gi 166898 (M84700)
                  beta-2 tubulin [Arabidopsis thaliana] >gi_166900 (M84701)
                  beta-3 tubulin [Arabidopsis thaliana]
Seq. No.
                  144167
                  LIB3168-037-P1-K1-F7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2894574
                  480
BLAST score
                  3.0e-48
E value
Match length
                  123
                  78
% identity
                  (AL021890) peroxidase prxrl [Arabidopsis thaliana]
NCBI Description
                  >gi 2961341 emb CAA18099.1 (AL022140) peroxidase prxr1
                  [Arabidopsis thaliana]
Seq. No.
                  144168
                  LIB3168-037-P1-K1-F8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1161171
BLAST score
                  133
E value
                  1.0e-07
Match length
                  124
% identity
                  18
                  (L42465) late embryogenesis abundant protein [Picea glauca]
NCBI Description
                  144169
Seq. No.
                  LIB3168-037-P1-K1-F9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3659491
BLAST score
                  292
E value
                  1.0e-163
Match length
                  476
                  98
% identity
                  Sequence of BAC T22H22 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144170
                  LIB3168-037-P1-K1-G1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  169
E value
                  2.0e-12
                  35
Match length
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
```

Seq. No. 144171

```
LIB3168-037-P1-K1-G10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3850063
BLAST score
                  196
E value
                  5.0e-15
Match length
                  116
% identity
                  36
                 (AJ223830) ARE1 [Rattus norvegicus]
NCBI Description
                  144172
Seq. No.
                  LIB3168-037-P1-K1-G11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  555
E value
                  3.0e-57
                  116
Match length
                  93
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144173
Seq. ID
                  LIB3168-037-P1-K1-G12
                  BLASTX
Method
NCBI GI
                  q461841
                  333
BLAST score
                  2.0e-31
E value
                  78
Match length
                  81
% identity
                  CRUCIFERIN CRU4 PRECURSOR (11S GLOBULIN) (12S STORAGE
NCBI Description
                  PROTEIN)
Seq. No.
                  144174
Seq. ID
                  LIB3168-037-P1-K1-G2
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  418
                  3.0e-41
E value
                  115
Match length
% identity
                  72
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir_NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi 166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi 395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  144175
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-G3
Method
                  BLASTN
NCBI GI
                  g4159712
                  250
BLAST score
E value
                  1.0e-138
Match length
                  281
% identity
                  98
NCBI Description Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
```

Seq. No.

144180

# MWI23, complete sequence

```
Seq. No.
Seq. ID
                  144176
                  LIB3168-037-P1-K1-G4
                  BLASTX
Method
NCBI GI
                  g544424
BLAST score
                  450
E value
                  5.0e-45
                  87
Match length
                  100
% identity
                  GLYCINE-RICH RNA-BINDING PROTEIN 7 >gi 419755 pir S30147
NCBI Description
                  glycine-rich protein (clone AtGRP7) - Arabidopsis thaliana
                  >qi 16301 emb CAA78711 (Z14987) glycine rich protein
                  [Arabidopsis thaliana] >gi 166837 (L00648) RNA-binding
                  protein [Arabidopsis thaliana]
                  >gi 4567224 gb AAD23639.1 AC007119 5 (AC007119)
                  glycine-rich RNA binding protein 7 [Arabidopsis thaliana]
Seq. No.
                  144177
                  LIB3168-037-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  630
                  6.0e-66
E value
                  136
Match length
                  87
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144178
Seq. No.
                  LIB3168-037-P1-K1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2244759
BLAST score
                  413
                  1.0e-40
E value
                  116
Match length
% identity
                  74
                  (Z97335) selenium-binding protein [Arabidopsis thaliana]
NCBI Description
                  144179
Seq. No.
                  LIB3168-037-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  821
                  3.0e-88
E value
                  155
Match length
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
```

```
LIB3168-037-P1-K1-G8
Seq. ID
Method
                  BLASTX.
NCBI GI
                  g421826
BLAST score
                  448
                  1.0e-44
E value
                  117
Match length
                  74
% identity
                  chlorophyll a/b-binding protein CP29 - Arabidopsis thaliana
NCBI Description
                  >gi 298036 emb CAA50712 (X71878) CP29 [Arabidopsis
                  thaliana]
                  144181
Seq. No.
                  LIB3168-037-P1-K1-G9
Seq. ID
                  BLASTX
Method
                  g4006848
NCBI GI
                  74
BLAST score
                  1.3e+00
E value
                  114
Match length
% identity
                  63
NCBI Description
                  (AJ131433) selenocysteine methyltransferase [Astragalus
                  bisulcatus]
                  144182
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  167
                  3.0e-12
E value
                  47
Match length
% identity
                  74
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144183
Seq. No.
                  LIB3168-037-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  559
E value
                  1.0e-57
Match length
                  106
                  100
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144184
Seq. No.
                  LIB3168-037-P1-K1-H11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  216
E value
                  1.0e-118
```

240

Match length

Match length

% identity
NCBI Description

155

thaliana]

```
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
                  144185
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  324
                  1.0e-30
E value
Match length
                  66
% identity
                  92
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144186
Seq. ID
                  LIB3168-037-P1-K1-H2
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  334
                  2.0e-34
E value
Match length
                  77
                  96
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144187
                LIB3168=037-P1-K1-H3
Seq. ID
Method
                  BŁASTX
NCBI GI
                  g1628583
BLAST score
                  697
E value
                  6.0e-77
                  154
Match length
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144188
Seq. No.
Seq. ID
                  LIB3168-037-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  q3860165
BLAST score
                  597
                  6.0e-62
E value
```

(AF098963) disease resistance protein RPP1-WsB [Arabidopsis

```
144189
Seq. No.
Seq. ID .
                  LIB3168-037-P1-K1-H5
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                   755
E value
                   1.0e-80
Match length
                  144
                   100
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir_ S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana) >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144190
Seq. No.
                  LIB3168-037-P1-K1-H6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204298
BLAST score
                   387
E value
                   8.0e-38
Match length
                  79
% identity
NCBI Description
                   (AC003027) 1cl prt seq No definition line found
                   [Arabidopsis thaliana]
Seq. No.
                   144191
                  LIB3168-037-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                   705
E value
                   1.0e-74
Match length
                  157
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144192
Seq. ID
                  LIB3168-037-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  g4204298
BLAST score
                  596
E value
                  7.0e-62
                  150
Match length
                   78
% identity
                   (AC003027) 1cl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  144193
Seq. ID
                  LIB3168-037-P1-K1-H9
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  109
E value
                  1.0e-38
Match length
                  102
```

17852

Fig.

Seq. ID

```
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir_ NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144194
Seq. ID
                  LIB3168-040-P1-K1-A11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  545
                  4.0e-56
E value
                  105
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144195
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-A12
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  625
                  3.0e-65
E value
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144196
Seq. No.
                  LIB3168-040-P1-K1-A2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4056488
BLAST score
                  381
E value
                  8.0e-37
Match length
                  70
% identity
NCBI Description
                  (AC005896) unknown protein [Arabidopsis thaliana]
Seq. No.
                  144197
                  LIB3168-040-P1-K1-A3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  604
E value
                  7.0e-63
                  147
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144198
Seq. No.
```

LIB3168-040-P1-K1-A4

```
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  441
                  2.0e-54
E value
                  154
Match length
% identity
                  79
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144199
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-A7
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  46
E value
                  8.0e-72
                  148
Match length
                  92
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144200
Seq. No.
                  LIB3168-040-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2689720
                  747
BLAST score
                  1.0e-79
E value
Match length
                  149
                  99
% identity
NCBI Description (AF037168) DnaJ homologue [Arabidopsis thaliana]
                  144201
Seq. No.
                  LIB3168-040-P1-K1-B10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2494106
BLAST score
                  380
E value
                  0.0e+00
                  438
Match length
                  98
% identity
                  Arabidopsis thaliana chromosome 1 YAC YUP8H12R sequence,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  144202
                  LIB3168-040-P1-K1-B11
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4490701
BLAST score
                  94
                  3.0e-45
E value
Match length
                  262
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T24A18
NCBI Description
                  (ESSA project)
```

144203

Seq. No.

Seq. ID

```
Seq. ID
                 LIB3168-040-P1-K1-B2
                  BLASTX
Method
NCBI GI
                  g4204299
BLAST score
                  675
E value
                  4.0e-71
Match length
                  131
% identity
                  100
                  (AC003027) lcl prt seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
                  144204
Seq. No.
                  LIB3168-040-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  201
E value
                  7.0e-16
Match length
                  45
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144205
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g2511725
BLAST score
                  535
E value
                  7.0e-55
Match length
                  115
                  91
% identity
                  (AF021937) catalase 1 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144206
Seq. ID
                  LIB3168-040-P1-K1-B7
Method
                  BLASTN
NCBI. GI
                  g1935913
BLAST score
                  49
E value
                  1.0e-18
Match length
                  113
% identity
                  86
                  Arabidopsis thaliana lethal leaf-spot 1 homolog (Lls1)
NCBI Description
                  mRNA, partial cds
Seq. No.
                  144207
Seq. ID
                  LIB3168-040-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  609
E value
                  2.0e-63
Match length
                  151
% identity
                  79
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144208
```

LIB3168-040-P1-K1-C1

NCBI GI

BLAST score

g1628582

41

```
Method
                  BLASTX
NCBI GI
                  g1628583
                   626
BLAST score
                   2.0e-65
E value
Match length
                  153
                  81
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144209
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-C12
Method
                  BLASTN
NCBI GI
                  q4662609
BLAST score
                  212
                   1.0e-116
E value
Match length
                  233
                   97
% identity
                  Genomic sequence for Arabidopsis thaliana BAC F10A5,
NCBI Description
                  complete sequence
Seq. No.
                  144210
Seq. ID
                  LIB3168-040-P1-K1-C2
Method
                  BLASTX
NCBI GI
                  g3172023.
BLAST score
                  587
E value
                   6.0e-61
Match length
                  124
% identity
                  94
NCBI Description
                   (AB005804) aldehyde oxidase [Arabidopsis thaliana]
Seq. No.
                  144211
Seq. ID
                  LIB3168-040-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  g3869088
BLAST score
                  689
                  8.0e-73
E value
Match length
                  136
                  98
% identity
                   (AB019427) elongation factor-1 alpha [Nicotiana paniculata]
NCBI Description
                  144212
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-C4
Method
                  BLASTN
NCBI GI
                  g4159705
BLAST score
                  125
E value
                  6.0e-64
Match length
                  294
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MGD8, complete sequence
Seq. No.
                  144213
                  LIB3168-040-P1-K1-C5
Seq. ID
                  BLASTN
Method
```

% identity

NCBI Description

99

```
E value
                   6.0e-14
Match length
                   55
                   96
% identity
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                   (ATCRU3) gene, complete cds
Seq. No.
                   144214
Seq. ID
                  LIB3168-040-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  g1695717
BLAST score
                   511
E value
                   2.0e-64
Match length
                  137
                   90
% identity
                   (D89341) luminal binding protein [Arabidopsis thaliana]
NCBI Description
                   144215
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  g3935145.
BLAST score
                  216
                   2.0e-17
E value
Match length
                  86
% identity
                   50
                   (AC005106) T25N20.9 [Arabidopsis thaliana]
NCBI Description
                  144216
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-D10
Method
                  BLASTX
NCBI GI
                   g4519671
BLAST score
                  269
E value
                   1.0e-23
                   95
Match length
% identity
                   (AB017693) transfactor [Nicotiana tabacum]
NCBI Description
Seq. No.
                  144217
Seq. ID
                  LIB3168-040-P1-K1-D11
Method
                  BLASTN
NCBI GI
                  g3355463
BLAST score
                   444
                  0.0e+00
E value
                   456
Match length
                  99
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F12L6 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
                  144218
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-D2
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  620
E value
                  1.0e-64
Match length
                  120
```

(U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

## cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                   144219
                  LIB3168-040-P1-K1-D4
Seq. ID
                  BLASTX
Method
                   g2129659
NCBI GI
BLAST score
                   302
E value
                   1.0e-27
                  93
Match length
                   65
% identity
                   oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                   (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                   144220
Seq. ID
                   LIB3168-040-P1-K1-D5
                   BLASTN
Method
                   g987013
NCBI GI
BLAST score
                   104
E value
                   8.0e-52
                   128
Match length
                   95
% identity
NCBI Description
                  A.thaliana mRNA for oleosin (isoform; 841 bp)
                   >gi 987015 emb Z54165 ATOLEOSN3 A.thaliana mRNA for oleosin
                   (isoform; 841 bp)
                   144221
Seq. No.
Seq. ID
                   LIB3168-040-P1-K1-D7
                   BLASTX
Method
NCBI GI
                   g2924262
BLAST score
                   283
                   7.0e-26
E value
Match length
                   62
% identity
                   87
                   (Z00044) PSII 44kd protein [Nicotiana tabacum]
NCBI Description
Seq. No.
                   144222
                  LIB3168-040-P1-K1-E10
Seq. ID
                  BLASTN
Method
                   q4510392
NCBI GI
BLAST score
                   63
E value
                   7.0e-27
                   233
Match length
                   70
% identity
                  Arabidopsis thaliana chromosome II BAC T17D12 genomic
NCBI Description
                   sequence, complete sequence
                   144223
Seq. No.
                  LIB3168-040-P1-K1-E11
Seq. ID
                  BLASTX
Method
NCBI GI
                   g2062164
                  94
BLAST score
                   5.0e-03
E value
                  135
Match length
% identity
NCBI Description
                   (AC001645) jasmonate inducible protein isolog [Arabidopsis
```

thaliana]

```
144224
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  g112681
                  649
BLAST score
                  4.0e-68
E value
Match length
                  127
% identity
                  99
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144225
Seq. No.
                  LIB3168-040-P1-K1-E2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2160151
BLAST score
                  82
                  2.0e-48
E value
                  117
Match length
% identity
                  91
                  (AC000375) Strong similarity to Brassica aspartic protease
NCBI Description
                  (gb X77260). [Arabidopsis thaliana]
                  144226
Seq. No.
                  LIB3168-040-P1-K1-E4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g166765
BLAST score
                  472
                  2.0e-47
E value
Match length
                  98
% identity
                  (M23106) heat shock protein HSP70-1 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144227
Seq. ID
                  LIB3168-040-P1-K1-E7
                  BLASTN
Method
NCBI GI
                  q4678266
                  220
BLAST score
                  1.0e-120
E value
                  244
Match length
                  98
% identity
                  Arabidopsis thaliana DNA chromosome 3, BAC clone F15B8
NCBI Description
                  (ESSA project)
Seq. No.
                  144228
Seq. ID
                  LIB3168-040-P1-K1-E8
                  BLASTN
Method
NCBI GI
                  g2853071
BLAST score
                  404
                  0.0e+00
E value
Match length
                  439
                  89
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone
NCBI Description
```

(ESSA project)

NCBI Description

```
Seq. No.
                   144229
                   LIB3168-040-P1-K1-E9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112739
                   609
BLAST score
                   2.0e-63
E value
                   142
Match length
% identity
                   83
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                    (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
Seq. No.
                   144230
                   LIB3168-040-P1-K1-F10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   781
E value
                   1.0e-83
Match length
                   146
% identity
                   99
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                    (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   144231
                   LIB3168-040-P1-K1-F12
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   460
E value
                   4.0e-46
Match length
                   115
% identity
                   77
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                    (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   144232
Seq. No.
                   LIB3168-040-P1-K1-F2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   394
                   5.0e-61
E value
                   139
Match length
                   89
% identity
```

(U66916) 12S cruciferin seed storage protein [Arabidopsis

% identity

95

```
cruciferin seed storage protein [Arabidopsis thaliana]
                   144233
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-F3
                  BLASTX
Method
NCBI GI
                   g2832674
                   161
BLAST score
                   3.0e-11
E value
                   40
Match length
% identity
NCBI Description
                   (AL021712) fibrillin precursor-like protein [Arabidopsis
                   thaliana]
                   144234
Seq. No.
                  LIB3168-040-P1-K1-F4
Seq. ID
Method
                  BLASTX
NCBI GI
                   g1592670
BLAST score
                   455
E value
                   2.0e-45
Match length
                  123
                   70
% identity
                   (X91920) dehydrin [Arabidopsis thaliana]
NCBI Description
                  >gi_4567280_gb_AAD23693.1_AC006841_21 (AC006841) putative
                  dehydrin [Arabidopsis thaliana]
Seq. No.
                  144235
Seq. ID
                  LIB3168-040-P1-K1-F5
Method
                  BLASTN
NCBI GI
                  g1931636
BLAST score
                  446
E value
                  0.0e + 00
                   470
Match length
                  99
% identity
NCBI Description Arabidopsis thaliana BAC T19D16 genomic sequence
                  144236
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  g2129642
BLAST score
                  60
                  3.0e-78
E value
Match length
                  146
% identity
                  95
NCBI Description
                  major latex protein type 3 - Arabidopsis thaliana
                  >gi 1107495 emb CAA63027 (X91961) major latex protein
                  type3 [Arabidopsis thaliana]
Seq. No.
                  144237
Seq. ID
                  LIB3168-040-P1-K1-F7
Method
                  BLASTN
NCBI GI
                  g4582444
BLAST score
                  102
E value
                  2.0e-50
Match length
                  130
```

thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S

NCBI Description Arabidopsis thaliana chromosome II BAC T9H9 genomic

#### sequence, complete sequence

```
Seq. No.
                   144238
Seq. ID
                   LIB3168-040-P1-K1-F8
                   BLASTN
Method
NCBI GI
                   g4220630
BLAST score
                   219
E value
                   1.0e-120
Match length
                   404
% identity
                   88 -
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K2K18, complete sequence [Arabidopsis thaliana]
Seq. No.
                   144239
                   LIB3168-040-P1-K1-G1
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4704766
BLAST score
                   562
E value
                   6.0e-58
Match length
                   152
                   62
% identity
NCBI Description
                   (AF131223) protein disulfide isomerase homolog; PDI
                   [Datisca glomerata]
Seq. No.
                   144240
Seq. ID
                   LIB3168-040-P1-K1-G10
Method
                   BLASTX
NCBI GI
                   q1169476
BLAST score
                   634
E value
                   2.0e-66
                   127
Match length
                   97
% identity
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
NCBI Description
                   ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632)
                   vitronectin-like adhesion protein [Nicotiana tabacum]
Seq. No.
                   144241
                   LIB3168-040-P1-K1-G11
Seq. ID
Method
                  BLASTX
NCBI GI
                   g4204298
BLAST score
                   621
                   8.0e-65
E value
Match length
                   153
% identity
                   80
                   (AC003027) lcl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   144242
Seq. ID
                  LIB3168-040-P1-K1-G12
Method
                  BLASTN
NCBI GI
                   g2618603
BLAST score
                   407
E value
                   0.0e+00
Match length
                   411
                   100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MSL3, complete sequence [Arabidopsis thaliana]
```

```
144243
Seq. No.
                  LIB3168-040-P1-K1-G3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3915961
                  295
BLAST score
                  1.0e-26
E value
Match length
                  143
                   53
% identity
                  HYPOTHETICAL 267 KD PROTEIN (ORF 2280)
NCBI Description
                  >gi 2924274 emb CAA77427 (Z00044) Ycf2 protein [Nicotiana
                  tabacum] >gi_2924285_emb_CAA77438_ (Z00044) hypothetical
                  protein [Nicotiana tabacum]
                  144244
Seq. No.
                  LIB3168-040-P1-K1-G4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2959781
BLAST score
                  709
E value
                   3.0e-75
                  137
Match length
% identity
                   96
                   (AJ223508) Zwille protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144245
                  LIB3168-040-P1-K1-G6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4630748
BLAST score
                   428
E value
                   3.0e-42
                  82
Match length
                   100
% identity
                   (AC007236) putative anion exchange protein 3 [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  144246
Seq. ID
                  LIB3168-040-P1-K1-G7
Method
                  BLASTN
NCBI GI
                  g3335170
BLAST score
                  115
E value
                   6.0e-58
Match length
                  262
                   96
% identity
                  Arabidopsis thaliana embryo-specific protein 3 (ATS3) gene,
NCBI Description
                  complete cds
Seq. No.
                  144247
                  LIB3168-040-P1-K1-G8
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3402745
BLAST score
                  216
E value
                  1.0e-118
                   441
Match length
                   96
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F18E5
NCBI Description
```

(ESSAII project)

```
Seq. No.
                  144248
                  LIB3168-040-P1-K1-G9
Seq. ID
Method
                  BLASTN
                  g2351064
NCBI GI
BLAST score
                  47
                  3.0e-17
E value
                  456
Match length
% identity
                  49
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MDJ22, complete sequence [Arabidopsis thaliana]
                  144249
Seq. No.
Seq. ID
                  LIB3168-040-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  620
E value
                  1.0e-64
Match length
                  146
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir
NCBI Description
                  cruciferin precursor (CRB) - Ārabidopsīs thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937_emb_CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144250
Seq. ID
                  LIB3168-040-P1-K1-H10
Method
                  BLASTX
NCBI GI
                  g3335169
BLAST score
                  615
E value
                  4.0e-64
Match length
                  134
% identity
                  82
NCBI Description
                   (AF067857) embryo-specific protein 1 [Arabidopsis thaliana]
                  >gi 4455197_emb_CAB36520.1_ (AL035440) embryo-specific
                  protein 1 (ATS1) [Arabidopsis thaliana]
Seq. No.
                  144251
Seq. ID
                  LIB3168-040-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  g2650133
BLAST score
                  265
E value
                  4.0e-23
Match length
                  113
% identity
                  50
NCBI Description
                  (AE001070) ribonuclease PH (rph) [Archaeoglobus fulgidus]
Seq. No.
                  144252
                  LIB3168-040-P1-K1-H2
Seq. ID
                  BLASTN
Method
NCBI GI
                  q336917
BLAST score
                  48
E value
                  8.0e-18
Match length
                  120
                  90
% identity
```

NCBI Description Epifagus virginiana chloroplast complete genome

4

```
144253
 Seq. No.
                   LIB3168-040-P1-K1-H4
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g1706749
                   463
 BLAST score
 E value
                   2.0e-46
 Match length
                   99
                   95
 % identity
                   3-OXOACYL-[ACYL-CARRIER-PROTEIN] SYNTHASE I PRECURSOR
 NCBI Description
                    (BETA-KETOACYL-ACP SYNTHASE I) (KAS I) >gi 780814 (U24177)
                   3-ketoacyl-acyl carrier protein synthase I [Arabidopsis
                   thaliana]
                   144254
 Seq. No.
                   LIB3168-040-P1-K1-H5
 Seq. ID
                   BLASTN
 Method
 NCBI GI
                   g3885325
 BLAST score
                   149
 E value
                   4.0e-78
                   217
 Match length
                   92
 % identity
                   Arabidopsis thaliana chromosome II BAC T20P8 genomic
 NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   144255
 Seq. No.
                   LIB3168-040-P1-K1-H6
 Seq. ID
 Method
                   BLASTN
 NCBI GI
                   g3367500
                   124
 BLAST score
                   2.0e-63
 E value
 Match length
                   196
                   91
 % identity
                   REVERSE-COMPLEMENT OF: F23J3.GCG.SEQ CHECK: 2754 FROM: 1
 NCBI Description
                   TO: 93489, complete sequence [Arabidopsis thaliana]
                   144256
 Seq. No.
                   LIB3168-040-P1-K1-H8
 Seq. ID
                   BLASTX
 Method
 NCBI GI
                   g4063751
 BLAST score .
                   198
                   9.0e-16
 E value
                   79
 Match length
 % identity
 NCBI Description
                   (AC005851) putative white protein [Arabidopsis thaliana]
                   >gi_4510409_gb_AAD21495.1_ (AC006929) putative white
                   protein [Arabidopsis thaliana]
                   144257
 Seq. No.
 Seq. ID
                   LIB3168-040-P1-K1-H9
 Method
                   BLASTN
 NCBI GI
                   g4733991
 BLAST score
                   80
E value
                   6.0e-37
Match length
                   238
 % identity
                   90
                   Arabidopsis thaliana chromosome II BAC T4D8 genomic
 NCBI Description
                   sequence, complete sequence
```

```
144258
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-A10
                  BLASTX
Method
                  g1628583
NCBI GI
                  175
BLAST score
                  7.0e-13
E value
Match length
                  80
                  47
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144259
Seq. ID
                  LIB3168-041-P1-K1-A11
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  606
E value
                  5.0e-63
                  147
Match length
                  80
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144260
                  LIB3168-041-P1-K1-A12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  630
                  6.0e-66
E value
Match length
                  137
                  86
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144261
                  LIB3168-041-P1-K1-A2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  237
E value
                  5.0e-20
Match length
                  112
% identity
                  41
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144262
                  LIB3168-041-P1-K1-A3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  564
E value
                  3.0e-58
```

NCBI GI

```
Match length
                  136
                  82
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144263
Seq. ID
                  LIB3168-041-P1-K1-A4
Method
                  BLASTN
                  q4097693
NCBI GI
BLAST score
                  39
E value
                  2.0e-13
Match length
                  39
                  100
% identity
                  Arabidopsis thaliana prohibitin 1 (Atphb1) gene, complete
NCBI Description
                  144264
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  432
                  1.0e-42
E value
Match length
                  120
                  71
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144265
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-A7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  378
                  9.0e-49
E value
Match length
                  110
                  91
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144266
Seq. ID
                  LIB3168-041-P1-K1-A8
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  254
E value
                  4.0e-22
Match length
                  84
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144267
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-B1
Method
                  BLASTX
```

q2129659

```
BLAST score
                  277
                  1.0e-24
E value
Match length
                  127
                  38
% identity.
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                   (L40954) oleosin [Arabidopsis thaliana]
                  144268
Seq. No.
                  LIB3168-041-P1-K1-B10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  823
                  2.0e-88
E value
                  156
Match length
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144269
                  LIB3168-041-P1-K1-B11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  618
BLAST score
                  2.0e-64
E value
                  120
Match length
                  99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144270
Seq. ID
                  LIB3168-041-P1-K1-B12
                  BLASTN
Method
NCBI GI
                  g2264306
BLAST score
                  208
E value
                  1.0e-113
Match length
                  216
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MBK5, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144271
                  LIB3168-041-P1-K1-B2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  81
E value
                  2.0e-59
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

144272

Seq. No.

Match length

```
Seq. ID
                  LIB3168-041-P1-K1-B3
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  495
E value
                  3.0e-50
Match length
                  113
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144273
                  LIB3168-041-P1-K1-B4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  612
E value
                  9.0e-64
Match length
                  132
% identity
                  87
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144274
Seq. ID
                  LIB3168-041-P1-K1-B5
                  BLASTN
Method
NCBI GI
                  g166612
BLAST score
                  129
                  1.0e-66
E value
Match length
                  145
                  97
% identity
                  A.thaliana at 2S4 gene encoding albumin 2S subunit 4,
NCBI Description
                  complete cds
Seq. No.
                  144275
Seq. ID
                  LIB3168-041-P1-K1-B7
Method
                  BLASTX
NCBI GI
                  g1628583
                                            . .
BLAST score
                  223
E value
                  8.0e-19
Match length
                  48
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144276
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  52
E value
                  6.0e-13
```

```
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  144277
Seq. No.
                  LIB3168-041-P1-K1-C10
Seq. ID
Method
                  BLASTX
                  g2244994
NCBI GI
BLAST score
                  582
E value
                  3.0e-60
Match length
                  155
                  79
% identity
NCBI Description
                  (Z97341) similarity to isp4 protein - fission yeast
                  [Arabidopsis thaliana]
Seq. No.
                  144278
                  LIB3168-041-P1-K1-C11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  196
E value
                  5.0e-21
                  117
Match length
                  55
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  144279
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-C12
Method
                  BLASTX
NCBI GI
                  g4185505
BLAST score
                  419
E value
                  4.0e-41
Match length
                  112
                  73
% identity
NCBI Description
                  (AF101038) nonspecific lipid-transfer protein precursor
                  [Brassica napus]
                  144280
Seq. No.
                  LIB3168-041-P1-K1-C3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  366
E value
                  4.0e-35
Match length
                  84
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

BLAST score

240

## cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  144281
                  LIB3168-041-P1-K1-C5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  503
                  5.0e-51
E value
Match length
                  102
% identity
                  92
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144282
Seq. ID
                  LIB3168-041-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  533
E value
                  2.0e-54
Match length
                  149
% identity
                  71
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144283
Seq. ID
                  LIB3168-041-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  435
E value
                  2.0e-43
Match length
                  95
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144284
Seq. ID
                  LIB3168-041-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  q226120
BLAST score
                  54
E value
                  2.0e-18
Match length
                  154
% identity
                  vicilin gene B [Saguinus oedipus]
NCBI Description
Seq. No.
                  144285
Seq. ID
                  LIB3168-041-P1-K1-C9
Method
                  BLASTN
NCBI GI
                  q4469002
```

```
E value
                   1.0e-132
Match length
                   304
% identity
                   94
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone
                   (ESSA project)
Seq. No.
                   144286
                   LIB3168-041-P1-K1-D10
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112737
BLAST score
                   675
E value
                   4.0e-71
Match length
                   156
% identity
                   83
NCBI Description
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   144287
Seq. No.
                   LIB3168-041-P1-K1-D11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   649
E value
                   4.0e-68
Match length
                   145
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   144288
Seq. ID
                   LIB3168-041-P1-K1-D12
Method
                   BLASTX
NCBI GI
                   g1001311
BLAST score
                   155
E value
                   4.0e-10
Match length
                   81
% identity
NCBI Description
                   (D64006) hypothetical protein [Synechocystis sp.]
                   144289
Seq. No.
                   LIB3168-041-P1-K1-D2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   88
E value
                   4.0e-77
Match length
                   151
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  144290
                  LIB3168-041-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  641
                  4.0e-67
E value
                  135
Match length
% identity
                  89
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  144291
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-D5
Method
                  BLASTN
NCBI GI
                  g2760165
BLAST score
                  175
E value
                  1.0e-93
Match length
                  463
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MAC9, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144292
Seq. ID
                  LIB3168-041-P1-K1-D6
Method
                  BLASTN
NCBI GI
                  g3449313
BLAST score
                  56
E value
                  2.0e-23
Match length
                  77
                  91
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K21P3, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144293
                  LIB3168-041-P1-K1-D8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  440
E value
                  1.0e-43
Match length
                  118
                  75
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  .144294
Seq. ID
                  LIB3168-041-P1-K1-D9
Method
                  BLASTX
NCBI GI
                  g3157930
BLAST score
                  641
E value
                  4.0e-67
```

```
Match length
                  120
% identity
                  99
                  (AC002131) Strong similarity to
NCBI Description
                  amino-cyclopropane-carboxylic acid oxidase gb L27664 from
                  Brassica napus. ESTs gb Z48548 and gb Z48549 come from
                  this gene. [Arabidopsis thaliana]
                  144295
Seq. No.
                  LIB3168-041-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  807
E value
                  1.0e-86
Match length
                  157
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144296
Seq. ID
                  LIB3168-041-P1-K1-E11
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  613
                  7.0e-64
E value
                  120 -
Match length
                  98
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144297
Seq. No.
                  LIB3168-041-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
                  648
BLAST score
                  5.0e-68
E value
Match length
                  150
                  83
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144298
                  LIB3168-041-P1-K1-E3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  185
E value
                  2.0e-14
Match length
                  41
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
144299
Seq. No.
                  LIB3168-041-P1-K1-E4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2288979
BLAST score
                  93
                  3.0e-45
E value
Match length
                  153
% identity
                  93
                  Arabidopsis thaliana chromosome II BAC T01024 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  144300
Seq. No.
                  LIB3168-041-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1931647
BLAST score
                  576
E value
                  1.0e-59
Match length
                  127 ·
% identity
NCBI Description
                   (U95973) endomembrane protein EMP70 precusor isolog
                  [Arabidopsis thaliana]
Seq. No.
                  144301
Seq. ID
                  LIB3168-041-P1-K1-E6
Method
                  BLASTX
NCBI GI
                  g3877252
BLAST score
                  255
E value
                  5.0e-22
Match length
                  119
% identity
NCBI Description
                  (293382) F45G2.10 [Caenorhabditis elegans]
Seq. No.
                  144302
Seq. ID
                  LIB3168-041-P1-K1-E7
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  638
E value
                  8.0e-67
Match length
                  147
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144303
Seq. ID
                  LIB3168-041-P1-K1-E8
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  434
E value
                  5.0e-43
Match length
                  119
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) > gi 68854 pir NWMU2 2S albumin 2 precursor -
```

Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit

NCBI GI

BLAST score

```
>gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144304
                  LIB3168-041-P1-K1-E9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g886433
BLAST score
                  96
E value
                  2.0e-46
Match length
                  193
% identity
                   98
NCBI Description A.thaliana mRNA for ARP protein
                  144305
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  232
E value
                  2.0e-19
                  84
Match length
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144306
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-F10
Method
                  BLASTN
NCBI GI
                  g4432829
BLAST score
                  438
E value
                  0.0e+00
Match length
                  470
                  98
% identity
                  Arabidopsis thaliana chromosome II BAC T1B3 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  144307
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-F11
Method
                  BLASTN
NCBI GI
                  g3176695
BLAST score
                  295
E value
                  1.0e-165
Match length
                  355
% identity
NCBI Description
                  Arabidopsis thaliana chromosome I BAC F14J9 genomic
                  sequence contains phyA marker, complete sequence
                  [Arabidopsis thaliana]
                  144308
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-F12
Method
                  BLASTX
```

2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871

(Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]

q1628583

```
E value
                  5.0e-51
Match length
                  120
                  86
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144309
Seq. No.
                  LIB3168-041-P1-K1-F2
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4220635
BLAST score
                  215
E value
                  1.0e-117
Match length
                  415
% identity
                  97
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MDB19, complete sequence [Arabidopsis thaliana]
                  144310
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-F3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  79
E value
                  2.8e-01
Match length
                  119
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144311
                  LIB3168-041-P1-K1-F5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4160573
BLAST score
                  152
E value
                  1.0e-10
Match length
                  82
% identity.
NCBI Description
                  (AL035226) guanine nucleotide binding protein beta
                  subunit-like [Schizosaccharomyces pombe]
                  144312
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  509
E value
                  1.0e-51
Match length
                  144
% identity
                  72
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
```

precursor [Arabidopsis thaliana]

Seq. No.

```
144313
 Seq. No.
 Seq. ID
                   LIB3168-041-P1-K1-F7
                   BLASTX
 Method
 NCBI GI
                   g464775
 BLAST score
                   499
 E value
                   1.0e-50
 Match length
                   130
                   74
 % identity
                   SUPEROXIDE DISMUTASE PRECURSOR (MN) >gi 542013 pir S39492
 NCBI Description
                   superoxide dismutase - Para rubber tree >gi 348137 (L11707)
                   superoxide dismutase (manganese) [Hevea brasiliensis]
 Seq. No.
                   144314
 Seq. ID
                   LIB3168-041-P1-K1-F8
 Method
                   BLASTX
 NCBI GI
                   g4567278
BLAST score
                   673
E value
                    6.0e-71
 Match length
                   149
 % identity
                   91
 NCBI Description
                    (AC006841) putative anthracycline associated resistance ARX
                   protein [Arabidopsis thaliana]
                   144315
 Seq. No.
                   LIB3168-041-P1-K1-F9
 Seq. ID
                   BLASTX
 Method
 NCBI GI
                   g2384671
 BLAST score
                   789
 E value
                   2.0e-84
 Match length
                   155
                    95
 % identity
                    (AF012657) putative potassium transporter AtKT2p
 NCBI Description
                    [Arabidopsis thaliana]
 Seq. No.
                   144316
 Seq. ID
                   LIB3168-041-P1-K1-G1
 Method
                   BLASTN
 NCBI GI
                   g3335170
 BLAST score
                   110
 E value
                   6.0e-55
Match length
                   332
                   95
 % identity
                   Arabidopsis thaliana embryo-specific protein 3 (ATS3) gene,
 NCBI Description
                   complete cds
 Seq. No.
                   144317
 Seq. ID
                   LIB3168-041-P1-K1-G10
 Method
                   BLASTN
 NCBI GI
                   g1244740
 BLAST score
                   452
                   0.0e+00
 E value
Match length
                   464
                   99
 % identity
                   Arabidopsis thaliana nuclear ribosomal ITS-1, 5.8S
 NCBI Description
                   ribosomal RNA, and ITS-2
```

```
LIB3168-041-P1-K1-G11
 Seq. ID
                   BLASTN
 Method
 NCBI GI
                   g4519183
 BLAST score
                   175
                   1.0e-93
 E value
Match length
                   268
 % identity
                   93
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
 NCBI Description
                   K15C23, complete sequence
                   144319
 Seq. No.
 Seq. ID
                   LIB3168-041-P1-K1-G2
 Method
                   BLASTN
 NCBI GI
                   g4314374
 BLAST score
                   256
                   1.0e-142
 E value
Match length
                   446
                   95
 % identity .
                   Arabidopsis thaliana chromosome II BAC F10A12 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                   144320
 Seq. ID
                   LIB3168-041-P1-K1-G3
Method
                   BLASTX
NCBI GI
                   q3021336
BLAST score
                   194
                   9.0e-15
E value
                   58
Match length
 % identity
NCBI Description
                   (AJ224957) RGA-like [Arabidopsis thaliana]
                   144321
 Seq. No.
 Seq. ID
                   LIB3168-041-P1-K1-G4
Method
                   BLASTX
NCBI GI
                   g2654868
 BLAST score
                   219
 E value
                   8.0e-23
Match length
                   63
                   92
 % identity
                   (AF015301) RbohAp108 [Arabidopsis thaliana]
NCBI Description
 Seq. No.
                   144322
 Seq. ID
                   LIB3168-041-P1-K1-G5
Method
                   BLASTX
NCBI GI
                   g119143
BLAST score
                   689
E value
                   8.0e-73
Match length
                   137
                   96
 % identity
NCBI Description
                   ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
                   >gi 81606 pir S06724 translation elongation factor eEF-1
                   alpha chain - Arabidopsis thaliana >gi_295788_emb_CAA34453_
                   (X16430) elongation factor 1-alpha [Arabidopsis thaliana]
                   >gi 1369927 emb CAA34454 (X16431) elongation factor
                   1-alpha [Arabidopsis thaliana] >gi_1369928_emb_CAA34455
                   (X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                   >gi_1532172 (U63815) EF-lalpha-A1 [Arabidopsis thaliana]
```

```
>gi 1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                  >gi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
                  144323
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-G6
                  BLASTN
Method
NCBI GI
                  g4220643
                  158
BLAST score
E value
                  6.0e-84
                  178
Match length
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MWD22, complete sequence [Arabidopsis thaliana]
                  144324
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-G7
                  BLASTX
Method
NCBI GI
                  g4056500
                  217
BLAST score
                  2.0e-17
E value
Match length
                  48
% identity
                   (AC005896) putative acetyltransferase [Arabidopsis
NCBI Description
                  thaliana]
                  144325
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-G8
Method
                  BLASTN
NCBI GI
                  g4006885
BLAST score
                  311
E value
                  1.0e-175
Match length
                  469
                  98
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
                  fragment No
Seq. No.
                  144326
Seq. ID
                  LIB3168-041-P1-K1-G9
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  634
                  2.0e-66
E value
                  152
Match length
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144327
Seq. ID
                  LIB3168-041-P1-K1-H1
Method
                  BLASTN
NCBI GI
                  g4079614
BLAST score
                  90
E value
                  1.0e-43
Match length
                  106
```



```
% identity
                    Arabidopsis thaliana chromosome I BAC F21M11 genomic
 NCBI Description
                    sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                    144328
                    LIB3168-041-P1-K1-H10
 Seq. ID
 Method
                    BLASTX
                    g3132475
 NCBI GI
 BLAST score
                    655 🦙
 E value
                    8.0e-69
 Match length
                    158
% identity
                    (AC003096) similar to proline-rich protein [Arabidopsis
 NCBI Description
 Seq. No.
                    144329
 Seq. ID
                    LIB3168-041-P1-K1-H11
 Method
                    BLASTX
 NCBI GI
                    g112682
 BLAST score
                    709
 E value
                    4.0e-75
 Match length
                    159
 % identity
                    84
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
 NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    144330
 Seq. ID
                    LIB3168-041-P1-K1-H2
 Method
                    BLASTX
 NCBI GI
                    g112741
 BLAST score
                    672
 E value
                    2.0e-73
 Match length
                   144
                    95
 % identity
 NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                    PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                    Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                    3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                    (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                    >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                    precursor [Arabidopsis thaliana]
                    144331
 Seq. No.
                    LIB3168-041-P1-K1-H4
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                    q112682
 BLAST score
                    607
 E value
                    2.0e-77
```

Match length 157 % identity

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510 cruciferin precursor (CRB) - Arabidopsis thaliana

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

NCBI GI

g112682

## storage protein [Arabidopsis thaliana]

```
144332
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-H5
Method
                  BLASTN
NCBI GI
                  q3869067
                  250
BLAST score
                  1.0e-138
E value
Match length
                  401
                  90
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MCK7, complete sequence [Arabidopsis thaliana]
                  144333
Seq. No.
Seq. ID
                  LIB3168-041-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  g112681
                  621
BLAST score
E value
                  8.0e-65
                  156
Match length
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144334
Seq. No.
                  LIB3168-041-P1-K1-H9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  518
E value
                  9.0e-53
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144335
                  LIB3168-043-P1-K1-A1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  332
E value
                  4.0e-31
Match length
                  66
% identity
                  100
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144336
Seq. ID
                  LIB3168-043-P1-K1-A10
Method
                  BLASTX
```

Method

BLASTX

```
BLAST score
                   588
E value
                  4.0e-61
Match length
                  124
                  89
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144337
Seq. No.
                  LIB3168-043-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g343210
BLAST score
                  513
E value
                  3.0e-52
Match length
                  108
                   91
% identity
NCBI Description
                   (M35995) apocytochrome b6 (alt.) [Oryza sativa]
                  >gi 226762 prf 1604469A cytochrome b6 [Oryza sativa]
                  144338
Seq. No.
Seq. ID
                  LIB3168-043-P1-K1-A12
Method
                  BLASTN
NCBI GI
                  q4587582
BLAST score
                  47 .
                  3.0e-17
E value
Match length
                  121
                  87
% identity
                  Arabidopsis thaliana chromosome II BAC T16B14 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  144339
Seq. ID
                  LIB3168-043-P1-K1-A2
                  BLASTN
Method
                  g2494110
NCBI GI
BLAST score
                  342
E value
                  0.0e+00
Match length
                  354
                  99
% identity
                  Sequence of BAC T1G11 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144340
Seq. ID
                  LIB3168-043-P1-K1-A3
Method
                  BLASTN
NCBI GI
                  g3985958
BLAST score
                  318
E value
                  1.0e-179
Match length
                  338
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, Pl clone:
NCBI Description
                  MZN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144341
                  LIB3168-043-P1-K1-A4
Seq. ID
```

```
NCBI GI
                  g2129657
BLAST score
                  243
                  1.0e-20
E value
                  77
Match length
                  68
% identity
NCBI Description
                  oleosin isoform - Arabidopsis thaliana
                  ->gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
                  thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                  [Arabidopsis thaliana]
                  144342
Seq. No.
Seq. ID
                  LIB3168-043-P1-K1-A5
                  BLASTX
Method
NCBI GI
                  g3335171
BLAST score
                  553
E value
                  5.0e-57
Match length
                  119
% identity
                  89
NCBI Description
                  (AF067858) embryo-specific protein 3 [Arabidopsis thaliana]
Seq. No.
                  144343
                  LIB3168-043-P1-K1-A6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4567300
                  50
BLAST score
E value
                  4.0e-19
Match length
                  198
% identity
                  85
NCBI Description
                  Arabidopsis thaliana chromosome II P1 MHK10 genomic
                  sequence, complete sequence
                  144344
Seq. No.
                  LIB3168-043-P1-K1-A7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112741
                  520
BLAST score
E value
                  4.0e-53
Match length
                  111 .
                  87
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144345
                  LIB3168-043-P1-K1-A9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  374
E value
                  5.0e-36
                  70
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

thaliana] >gi 2842495\_emb\_CAA16892 (AL021749) 12S

## cruciferin seed storage protein [Arabidopsis thaliana] 144346 Seq. No. LIB3168-043-P1-K1-B1 Seq. ID BLASTX Method NCBI GI q3176874 BLAST score 501 6.0e-51 E value 96 Match length 99 % identity (AF065639) cucumisin-like serine protease [Arabidopsis NCBI Description thal'iana] 144347 Seq. No. Seq. ID LIB3168-043-P1-K1-B10 BLASTX Method g4678299 NCBI GI BLAST score 604 6.0e-63 E value Match length 118 100 % identity (AL049655) cysteine proteinase precursor-like protein NCBI Description [Arabidopsis thaliana] Seq. No. 144348 LIB3168-043-P1-K1-B11 Seq. ID Method BLASTN NCBI GI g4199934 BLAST score 313 E value 1.0e-176 Match length 317 100 % identity Genomic sequence for Arabidopsis thaliana BAC T3P18, NCBI Description complete sequence [Arabidopsis thaliana] Seq. No. 144349 Seq. ID LIB3168-043-P1-K1-B2 Method BLASTX NCBI GI q112737 BLAST score 363 E value 1.0e-34 Match length 130 % identity 60 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana]

144350

Seq. ID LIB3168-043-P1-K1-B3

Method BLASTX
NCBI GI g1628583
BLAST score 550
E value 1.0e-56

Seq. No.

```
Match length
                  138
% identity
                  78
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144351
                  LIB3168-043-P1-K1-B5
Seq. ID
                  BLASTX
Method
                  q1628583
NCBI GI
BLAST score
                  375
                  5.0e-36
E value
                  148
Match length
% identity
                  57
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144352
Seq. ID
                  LIB3168-043-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  659
                  2.0e-69
E value
                  127
Match length
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144353
Seq. ID
                  LIB3168-043-P1-K1-B8
                  BLASTN
Method
                  g1490552
NCBI GI
BLAST score
                  264
                  1.0e-147
E value
                  268
Match length
                  100
% identity
NCBI Description
                  Arabidopsis thaliana S-adenosylmethionine decarboxylase
                  (SAMdc) mRNA, complete cds
Seq. No.
                  144354
Seq. ID
                  LIB3168-043-P1-K1-C10
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  573
E value
                  2.0e-70
Match length
                  138
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144355
Seq. ID
                  LIB3168-043-P1-K1-C11
Method
                  BLASTX
NCBI GI
                  q4335745
```

Match length

```
BLAST score
                  226
E value
                  8.0e-19
Match length
                  92
                  53
% identity
                  (AC006284) putative hydrolase (contains an
NCBI Description
                  esterase/lipase/thioesterase active site serine domain
                  (prosite: PS50187) [Arabidopsis thaliana]
                  144356
Seq. No.
Seq. ID
                  LIB3168-043-P1-K1-C12
Method
                  BLASTX
                  g112739
NCBI GI
BLAST score
                  338
                  8.0e-32
E value
                  105
Match length
% identity
                  67
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144357
                  LIB3168-043-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  603
                  9.0e-63
E value
                  122
Match length
                  93
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144358
Seq. No.
                  LIB3168-043-P1-K1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  543
                  9.0e-56
E value
Match length
                  105
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144359
                  LIB3168-043-P1-K1-C6
Seq. ID
                  BLASTN
Method
NCBI GI
                  g3298610
BLAST score
                  151
E value
                  2.0e-79
```

Seq. ID

```
% identity
NCBI Description
                  Arabidopsis thaliana BAC T2H3
                  144360
Seq. No.
                  LIB3168-043-P1-K1-D1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1076414
                  650
BLAST score
E value
                  3.0e-68
Match length
                  141
                  90
% identity
                  subtilisin-like proteinase (EC 3.4.21.-) - Arabidopsis
NCBI Description
                  thaliana (fragment) >gi 757534 emb CAA59963 (X85974)
                  subtilisin-like protease [Arabidopsis thaliana]
                  144361
Seq. No.
Seq. ID
                  LIB3168-043-P1-K1-D10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  389
E value
                  1.0e-62
Match length
                  126
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144362
Seq. ID
                  LIB3168-043-P1-K1-D2
                  BLASTX
Method
NCBI GI
                  g112739
BLAST score
                  347
E`value
                  6.0e-33
                  99
Match length
                  73
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  144363
Seq. No.
Seq. ID
                  LIB3168-043-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  602
E value
                  1.0e-62
Match length
                  119
% identity
                  98
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144364
```

LIB3168-043-P1-K1-D4

```
BLASTN
 Method
 NCBI GI
                     g4185120
                    78
 BLAST score
                     6.0e-36
 E value
                     202
 Match length
                     94
 % identity
                    Arabidopsis thaliana chromosome 1 BAC F5F19 sequence,
 NCBI Description
                     complete sequence [Arabidopsis thaliana]
· Seq. No.
                     144365
                    LIB3168-043-P1-K1-D5
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                     q112682
                     322
 BLAST score
                     3.0e-30
 E value
                    79
 Match length
                     80
 % identity
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir _S08510
                     cruciferin precursor (CRB) - Arabidopsis thaliana
                     >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                     thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                     storage protein [Arabidopsis thaliana]
 Seq. No.
                     144366
 Seq. ID
                    LIB3168-043-P1-K1-D8
 Method
                    BLASTX
 NCBI GI
                     q1628583
 BLAST score
                     630
 E value
                     5.0e-66
 Match length
                     124
                    98
 % identity
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                     thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                     144367
                    LIB3168-043-P1-K1-D9
 Seq. ID
                    BLASTX
 Method
                     q2129657
 NCBI GI
 BLAST score
                     346
 E value
                     9.0e-33
                    100
 Match length
                     74
 % identity
                    oleosin isoform - Arabidopsis thaliana
 NCBI Description
                    >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                     [Arabidopsis thaliana]
                    144368
 Seq. No.
                    LIB3168-043-P1-K1-E1
 Seq. ID
                    BLASTX
 Method
                   g2129744
 NCBI GI
 BLAST score
                    282
                     4.0e-47
 E value
 Match length
                    120
                    81
 % identity
```

NCBI Description sulfate adenylyltransferase (EC 2.7.7.4) precursor (clone

```
sulfurylase [Arabidopsis thaliana]
                   144369
Seq. No.
                   LIB3168-043-P1-K1-E10
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112681
BLAST score
                   44
                   2.0e-54
E value
                   123
Match length
                   91
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144370
Seq. No.
                   LIB3168-043-P1-K1-E11
Seq. ID
                   BLASTX
Method
NCBI GI
                   q112741
BLAST score
                   46
                   9.0e-55
E value
Match length
                   128
% identity
                   85
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >qi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   144371
Seq. ID
                   LIB3168-043-P1-K1-E2
Method
                   BLASTX
NCBI GI
                   q1628583
                   625
BLAST score
E value
                   2.0e-65
Match length
                   120
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144372
Seq. ID
                   LIB3168-043-P1-K1-E3
Method
                   BLASTX
                   q3850816
NCBI GI
BLAST score
                   326
E value
                   2.0e-30
Match length
                   78
% identity
                   (Y18348) U2 snRNP auxiliary factor, small subunit [Oryza
NCBI Description
                   sativa]
```

APS3) - Arabidopsis thaliana >qi 459144 (U06275) ATP

144373

Seq. No.

E value

2.0e-45

```
LIB3168-043-P1-K1-E5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  350
                  1.0e-50
E value
Match length
                  140
% identity
                  76
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144374
                  LIB3168-043-P1-K1-E6
Seq. ID
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  455
E value
                  1.0e-45
Match length
                  114
                  77
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  144375
Seq. No.
Seq. ID
                  LIB3168-043-P1-K1-E7
                  BLASTX
Method
NCBI GI
                  g2244750
BLAST score
                  56
                  2.0e-28
E value
Match length
                  72
% identity
                  (Z97335) adenosylhomocysteinase [Arabidopsis thaliana]
NCBI Description
                  >gi 3088579 (AF059581) S-adenosyl-L-homocysteine hydrolase
                  [Arabidopsis thaliana]
Seq. No.
                  144376
Seq. ID
                  LIB3168-043-P1-K1-E8
                  BLASTX
Method
                  q1408471
NCBI GI
BLAST score
                  417
E value
                  5.0e-41
Match length
                  93
% identity
                  (U48938) actin depolymerizing factor 1 [Arabidopsis
NCBI Description
                  thaliana] >gi 3851707 (AF102173) actin depolymerizing
                  factor 1 [Arabidopsis thaliana]
                  144377
Seq. No.
                  LIB3168-043-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  455
```

Seq. No.

```
Match length
                    114
                    77
% identity
                    2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                    PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                    Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                    (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                    >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                    precursor [Arabidopsis thaliana]
                    144378
Seq. No.
Seq. ID
                    LIB3168-043-P1-K1-F1
Method
                    BLASTX
NCBI GI
                    q1350680
BLAST score
                    636
                    1.0e-66
E value
                    121
Match length
                    99
% identity
NCBI Description
                    60S RIBOSOMAL PROTEIN L1
Seq. No.
                    144379
Seq. ID
                    LIB3168-043-P1-K1-F10
Method
                    BLASTN
NCBI GI
                    g166610
BLAST score
                    149
E value
                    3.0e-78
Match length
                    286
% identity
                    91
NCBI Description
                    A.thaliana at 2S2 gene encoding albumin 2S subunit 2,
                    complete cds
Seq. No.
                    144380
                    LIB3168-043-P1-K1-F11
Seq. ID
Method
                    BLASTX
NCBI GI
                    g1628583
BLAST score
                    611
E value
                    8.0e-64
Match length
                    123
% identity
                    97
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    144381
Seq. ID
                    LIB3168-043-P1-K1-F12
Method
                    BLASTX
NCBI GI
                    g2129657
                    377
BLAST score
E value
                    3.0e-36
                    105
Match length
                    76
% identity
NCBI Description
                    oleosin isoform - Arabidopsis thaliana
                    >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
```

17892

[Arabidopsis thaliana]

% identity

NCBI Description

98

```
Seq. ID
                  LIB3168-043-P1-K1-F2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  469
E value
                  1.0e-56
Match length
                  119
% identity
                  95
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144383
Seq. ID
                  LIB3168-043-P1-K1-F3
Method
                  BLASTX
NCBI GI
                  g2262112
BLAST score
                  686
E value
                  2.0e-72
Match length
                  130
% identity
                  99
NCBI Description
                  (AC002343) trehalase precusor isolog [Arabidopsis thaliana]
                  144384
Seq. No.
Seq. ID
                  LIB3168-043-P1-K1-F4
Method
                  BLASTX
NCBI GI
                  g544425
BLAST score
                  463
                  1.0e-46
E value
Match length
                  90
                  99
% identity
                  GLYCINE-RICH RNA-BINDING PROTEIN 8 (CCR1 PROTEIN)
NCBI Description
                  >gi_419756_pir__S30148 glycine-rich protein (clone AtGRP8)
                  - Arabidopsis thaliana >gi 16305 emb CAA78712 (Z14988)
                  glycine rich protein [Arabidopsis thaliana] >gi 166658
                   (L04171) ORF [Arabidopsis thaliana] >gi 166839 (L00649)
                  RNA-binding protein [Arabidopsis thaliana]
Seq. No.
                  144385
Seq. ID
                  LIB3168-043-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  512
E value
                  3.0e-52
Match length
                  125
% identity
                  82
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144386
                  LIB3168-043-P1-K1-F7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                                                         4
                  586
BLAST score
E value
                  3.0e-61
Match length
                  125
```

17893

(U66916) 12S cruciferin seed storage protein [Arabidopsis

:5:

E value

1.0e-44

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]
```

```
144387
Seq. No.
                  LIB3168-043-P1-K1-F8
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  569
                  7.0e-59
E value
Match length
                  111
                  99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144388
Seq. ID
                  LIB3168-043-P1-K1-F9
                  BLASTN
Method
NCBI GI
                  g4454585
BLAST score
                  35
                  2.0e-10
E value
Match length
                  78
% identity
                  89
                  Arabidopsis thaliana BAC T13D4 from chromosome IV near 21.5
NCBI Description
                  cM, complete sequence
Seq. No.
                  144389
Seq. ID
                  LIB3168-043-P1-K1-G11
Method
                  BLASTX
                  g4204298
NCBI GI
BLAST score
                  652
E value
                  1.0e-68
Match length
                  123
% identity
                  99
NCBI Description
                   (AC003027) 1cl prt seq No definition line found
                   [Arabidopsis thaliana]
                  144390
Seq. No.
                  LIB3168-043-P1-K1-G12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  579
E value
                  5.0e-60
                  129
Match length
                  86
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144391
                  LIB3168-043-P1-K1-G2
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112737
BLAST score
                  448
```

```
Match length
                   96
 % identity
                   88
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
 NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   144392
· Seq. No.
                   LIB3168-043-P1-K1-G4
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g1334372
 BLAST score
                   172
                   8.0e-13
 E value
 Match length
                   47
 % identity
                   79
                   (X13366) pot. alt. CP-a2 protein (AA 1 - 461) [Secale
 NCBI Description
                   cerealel
                   144393
 Seq. No.
                   LIB3168-043-P1-K1-G6
 Seq. ID
                   BLASTX
 Method
 NCBI GI
                   q1628583
 BLAST score
                   390 .
 E value
                   5.0e-39
 Match length
                   89
 % identity
 NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                   144394
 Seq. ID
                   LIB3168-043-P1-K1-G7
                   BLASTX
 Method.
 NCBI GI
                   q1628583
 BLAST score
                   402
 E value
                   2.0e-39
 Match length
                   100
 % identity
                   81
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                   144395
                   LIB3168-043-P1-K1-H1
 Seq. ID
 Method
                   BLASTX
                   g1628583
 NCBI GI
 BLAST score
                   374
 E value-
                   9.0e-37
 Match length
                   88
                   94
 % identity
 NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. ID

```
Seq. No.
                  144396
                  LIB3168-043-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1592670
                  440
BLAST score
                  1.0e-43
E value
                  120
Match length
% identity
                  69
NCBI Description
                  (X91920) dehydrin [Arabidopsis thaliana]
                  >gi 4567280 gb AAD23693.1 AC006841 21 (AC006841) putative .
                  dehydrin [Arabidopsis thaliana]
                  144397
Seq. No.
Seq. ID
                  LIB3168-043-P1-K1-H11
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  485
                  5.0e-49
E value
Match length
                  114
                  82
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68856 pir NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi 395202 emb CAA80869
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144398
Seq. ID
                  LIB3168-043-P1-K1-H12
Method
                  BLASTN
NCBI GI
                  g4589432
BLAST score
                  67
E value
                  3.0e-29
Match length
                  331
% identity
                  93
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MMJ24, complete sequence
                  144399
Seq. No.
Seq. ID
                  LIB3168-043-P1-K1-H4
                  BLASTX
Method
NCBI GI
                  g112743
BLAST score
                  330
E value
                  4.0e-31
Match length
                  77
% identity
                  81
NCBI Description
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68856 pir NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi 166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi 395202 emb CAA80869
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144400
```

LIB3168-043-P1-K1-H5

% identity

```
Method
                   BLASTX
NCBI GI
                   g1703115
BLAST score
                   530
E value
                   3.0e-54
                   97
Match length
                   100
% identity
                   ACTIN 3 >gi 2129526 pir S68112 actin 3 - Arabidopsis
NCBI Description
                   thaliana >gi_1145695 (U39480) actin [Arabidopsis thaliana]
                   >gi 3236244 (AC004684) actin 3 protein [Arabidopsis
                   thaliana]
                   144401
Seq. No.
Seq. ID
                   LIB3168-043-P1-K1-H7
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   551
                   7.0e-57
E value
Match length
                   106
% identity
                   99
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144402
Seq. ID
                   LIB3168-043-P1-K1-H9
Method
                   BLASTX
NCBI GI
                   q131336
BLAST score
                   334
E value
                   2.0e-31
Match length
                   73
% identity
NCBI Description
                   PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >gi 72715 pir F2NT0P
                   photosystem II phosphoprotein psbH - common tobacco
                   chloroplast >gi_11857_emb_CAA77374_ (Z00044) PSII 10kD
                   phosphoprotein [Nicotiana tabacum]
>gi_225225_prf__1211235BG photosystem II 10kD
phosphoprotein [Nicotiana tabacum]
Seq. No.
                   144403
Seq. ID
                   LIB3168-044-P1-K1-A1
Method
                   BLASTX
NCBI GI
                   g2160151
BLAST score
                   500
E value
                   5.0e-51
                   95
Match length
% identity
NCBI Description
                    (AC000375) Strong similarity to Brassica aspartic protease
                    (gb X77260). [Arabidopsis thaliana]
Seq. No.
                   144404
                   LIB3168-044-P1-K1-A11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112743
BLAST score
                   558
E value
                   2.0e-57
Match length
                   102
```

```
2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68856 pir NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144405
                  LIB3168-044-P1-K1-A12
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4757411
BLAST score
                  277
E value
                  1.0e-154
Match length
                  389
% identity
                  96
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MXC7, complete sequence
Seq. No.
                  144406
Seq. ID
                  LIB3168-044-P1-K1-A2
Method
                  BLASTX
NCBI GI
                  q4559371
BLAST score
                  631
E value
                  4.0e-66
Match length
                  137
% identity
                  91
NCBI Description
                  (AC006585) putative peroxidase [Arabidopsis thaliana]
Seq. No.
                  144407
Seq. ID
                  LIB3168-044-P1-K1-A3
Method
                  BLASTX
NCBI GI
                  g2894574
BLAST score
                  632
E value
                  3.0e-66
Match length
                  120
% identity
                  100
NCBI Description
                  (AL021890) peroxidase prxrl [Arabidopsis thaliana]
                  >gi 2961341 emb CAA18099.1 (AL022140) peroxidase prxr1
                  [Arabidopsis thaliana]
                  144408
Seq. No.
Seq. ID
                  LIB3168-044-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  550
E value
                  1.0e-56
Match length
                  132
% identity
                  80
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
```

144409

LIB3168-044-P1-K1-A6

Seq. No. Seq. ID

```
Method
                    BLASTN
NCBI GI
                    g4589428
BLAST score
                    416
                    0.0e+00
E value
Match length
                    420
                    100
% identity
                    Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                    MFH8, complete sequence
Seq. No.
                    144410
                    LIB3168-044-P1-K1-A7
Seq. ID
                    BLASTX
Method
NCBI GI
                    g1345973
BLAST score
                    487
                    3.0e-49
E value
Match length
                    108
                    82
% identity
                    OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                    >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC
1.14.99.-) CF3 - Arabidopsis thaliana >gi_408483 (L22931)
                    omega-3 fatty acid desaturase [Arabidopsis thaliana]
                    >gi_471091_dbj_BAA04505_ (D17579) fatty acid desaturase
[Arabidopsis thaliana] >gi_1197795_dbj_BAA05514_ (D26508)
                    microsomal omega-3 fatty acid desaturase [Arabidopsis
                    thaliana] >gi 3420053 (AC004680) omega-3 fatty acid
                    desaturase [Arabidopsis thaliana]
Seq. No.
                    144411
                    LIB3168-044-P1-K1-A8
Seq. ID
Method
                    BLASTX
NCBI GI
                    g4314379
BLAST score
                    166
E value
                    1.0e-11
Match length
                    70
% identity
NCBI Description
                    (AC006232) unknown protein [Arabidopsis thaliana]
Seq. No.
                    144412
Seq. ID
                    LIB3168-044-P1-K1-A9
Method
                    BLASTX
NCBI GI
                    g1053093
BLAST score
                    403
E value
                    2.0e-39
Match length
                    98
% identity
NCBI Description
                    (U38550) zeta-carotene desaturase precursor [Arabidopsis
                    thaliana]
                    144413
Seq. No.
                    LIB3168-044-P1-K1-B1
Seq. ID
Method
                    BLASTX
NCBI GI
                    g112682
BLAST score
                    444
E value
                    4.0e-44
Match length
                    99
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
```

cruciferin precursor (CRB) - Arabidopsis thaliana
>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana]

Seq. No. 144414 LIB3168-044-P1-K1-B10 Seq. ID Method BLASTX NCBI GI g112741 BLAST score 679 E value 1.0e-71 Match length 129 % identity 98 NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana] 144415 Seq. No. Seq. ID LIB3168-044-P1-K1-B11 Method BLASTX NCBI GI q112681 BLAST score 517 E value 1.0e-52 Match length 104 98 % identity NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 cruciferin precursor (CRA1) - Arabidopsis thaliana >gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 144416 Seq. ID LIB3168-044-P1-K1-B2 Method BLASTX NCBI GI q1628583 BLAST score 670 E value 1.0e-70 Match length 136 % identity 96

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144417

Seq. ID LIB3168-044-P1-K1-B3

Method BLASTX
NCBI GI g99688
BLAST score 511
E value 7.0e-52
Match length 116
% identity 93

NCBI Description translation elongation factor eEF-1 alpha chain (gene A4) -

Arabidopsis thaliana >gi 295789 emb CAA34456 (X16432)

# elongation factor 1-alpha [Arabidopsis thaliana]

```
144418
Seq. No.
                  LIB3168-044-P1-K1-B4
Seq. ID
                  BLASTX
Method
                  g118926
NCBI GI
BLAST score
                  239
E value
                  4.0e-20
                  100
Match length
                  50
% identity
                  DESSICATION-RELATED PROTEIN CLONE PCC13-62 PRECURSOR
NCBI Description
                  >qi 320600 pir E45509 desiccation-related protein (clone
                  PCC13-62) - Craterostigma plantagineum >gi 167479 (M62991)
                  dessication-related protein [Craterostigma plantagineum]
                  >gi 227781 prf 1710351E abscisic acid responsive protein E
                  [Craterostigma plantagineum]
Seq. No.
                  144419
                                                                             LIB3168-044-P1-K1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  191
E value
                  1.0e-14
                  93
Match length
% identity
                  45
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144420
Seq. ID
                  LIB3168-044-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g2129773
BLAST score
                  585
E value
                  1.0e-60
Match length
                  109
                  100
% identity
                  xyloglucan endotransglycosylase-related protein XTR3 -
NCBI Description
                  Arabidopsis thaliana (fragment) >gi 1244752 (U43485)
                  xyloglucan endotransglycosylase-related protein
                  [Arabidopsis thaliana]
Seq. No.
                  144421
                  LIB3168-044-P1-K1-B7
Seq. ID
Method
                  BLASTN
NCBI GI
                  q511598
BLAST score
                  398
E value
                  0.0e + 00
                  402
Match length
                  26
% identity
                 Arabidopsis thaliana cell wall protein (APTR-1) gene,
NCBI Description
```

complete cds

```
Seq. No.
                  144422
                  LIB3168-044-P1-K1-B8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474 .
BLAST score
                  262
                  1.0e-145
E value
                  282
Match length
% identity
                  98
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                   (ESSAII project)
Seq. No.
                  144423
Seq. ID
                  LIB3168-044-P1-K1-B9
Method
                  BLASTN
NCBI GI
                  g166609
BLAST score
                  75
E value
                  5.0e-34
Match length
                  119
% identity
                  92
NCBI Description
                  A.thaliana at 2S1 gene encoding albumin 2S subunit 1,
                  complete cds
Seq. No.
                  144424
Seq. ID
                  LIB3168-044-P1-K1-C1
Method
                  BLASTX
NCBI GI
                  q4587680
BLAST score
                  276
E value
                   4.0e-27
Match length
                  104
% identity
                   67
                  (AC007197) putative cytochrome p450 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144425
                  LIB3168-044-P1-K1-C10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2791834
BLAST score
                  582
E value
                  7.0e-64
Match length
                  130
% identity
NCBI Description
                   (AF041463) elongation factor 1-alpha [Manihot esculenta]
Seq. No.
                  144426
                  LIB3168-044-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3319370
BLAST score
                  569
E value
                  8.0e-59
Match length
                  112
% identity
                   (AF077409) contains similarity to C3HC4-type zinc fingers
NCBI Description
                   (Pfam: zf-C3HC4.hmm, score: 32.94) [Arabidopsis thaliana]
Seq. No.
                  144427
                  LIB3168-044-P1-K1-C3
Seq. ID
                  BLASTX
Method
NCBI GI
```

g3043415

```
608
BLAST score
E value
                  2.0e-63
Match length
                  116
                  100
% identity
                  (Y17053) At-hsc70-3 [Arabidopsis thaliana]
NCBI Description
                  144428
Seq. No.
                  LIB3168-044-P1-K1-C4
Seq. ID
Method
                  BLASTX
NCBI GI ·
                  g112681
                  607
BLAST score
                  3.0e-63
E value
Match length
                  121
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144429
Seq. No.
                  LIB3168-044-P1-K1-C6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1495251
BLAST score
                  687
E value
                  1.0e-72
Match length
                  138
% identity
                  96
                  (Z70314) heat-shock protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144430
Seq. ID
                  LIB3168-044-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  388
E value
                  2.0e-37
Match length
                  135
% identity
                  69
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144431
                  LIB3168-044-P1-K1-C8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  253
E value
                  1.0e-140
Match length
                  253
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
```

Seq. No. 144432

Seq. ID LIB3168-044-P1-K1-C9

Method BLASTN NCBI GI g1628582

```
BLAST score
                  45
E value
                  2.0e-16
                  145
Match length
                  83
% identity
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                   (ATCRU3) gene, complete cds
Seq. No.
                  144433
                  LIB3168-044-P1-K1-D1
Seq. ID
                  BLASTX
Method
                  g4455206
NCBI GI
BLAST score
                  403
E value
                  2.0e-39
                  128
Match length
% identity
                   (AL035440) putative beta-1, 3-glucanase [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  144434
                  LIB3168-044-P1-K1-D11
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  94
                  1.0e-49
E value
Match length
                  137
                  77
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144435
Seq. No.
                  LIB3168-044-P1-K1-D12
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  517
E value
                  1.0e-52
                  136
Match length
                  77
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144436
                  LIB3168-044-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  680
                  8.0e-72
E value
Match length
                  129
% identity .
                  98
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
```

(224744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi 4490712\_emb\_CAB38846.1 (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana]

144437 Seq. No. LIB3168-044-P1-K1-D3 Seq. ID BLASTX Method NCBI GI g1335862 BLAST score 317 E value 3.0e-29 Match length 81 80 % identity (U42608) clathrin heavy chain [Glycine max] NCBI Description

Seq. No. 144438

LIB3168-044-P1-K1-D4 Seq. ID

Method BLASTX NCBI GI g1628583 BLAST score 615 E value 3.0e-64 120 Match length 99 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi 2842495 emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144439

Seq. ID LIB3168-044-P1-K1-D5

Method BLASTX NCBI GI g4204299 BLAST score 608 E value 2.0e-63 Match length 137 % identity 86

NCBI Description (AC003027) lcl prt seq No definition line found

[Arabidopsis thaliana]

Seq. No. 144440

Seq. ID LIB3168-044-P1-K1-D6

Method BLASTN NCBI GI q4582444 BLAST score 391 E value 0.0e + 00Match length 415 % identity 99

Arabidopsis thaliana chromosome II BAC T9H9 genomic NCBI Description

sequence, complete sequence

Seq. No. 144441

LIB3168-044-P1-K1-D7 Seq. ID

Method BLASTN NCBI GI q4589414 BLAST score 151 2.0e-79 E value Match length 401 % identity 99

Arabidopsis thaliana genomic DNA, chromosome 3, TAC clone: NCBI Description

K14B15, complete sequence

```
144442
Seq. No.
                  LIB3168-044-P1-K1-D9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1592686
BLAST score
                  142
E value
                  9.0e-09
Match length
                  42
% identity
                  (X91918) oleosin type4 [Arabidopsis thaliana]
NCBI Description
                  144443
Seq. No.
                  LIB3168-044-P1-K1-E1
Seq. ID
                  BLASTN
Method
NCBI GI
                  g17825
BLAST score
                  115
E value
                  7.0e-58
Match length
                  127
% identity
                  98
                  B.nigra gene (II) for 5S rRNA
NCBI Description
Seq. No.
                  144444
Seq. ID
                  LIB3168-044-P1-K1-E11
Method
                  BLASTX
NCBI GI
                  g4325282
BLAST score
                  446
E value
                  2.0e-44
Match length
                  98
                  87
% identity
NCBI Description
                   (AF123310) NAC domain protein NAM [Arabidopsis thaliana]
                  >gi_4325286_gb_AAD17314_ (AF123311) NAC domain protein NAM
                  [Arabidopsis thaliana]
Seq. No.
                  144445
Seq. ID
                  LIB3168-044-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  q140508
BLAST score
                  649
E value
                  3.0e-68
Match length
                  138
% identity
                  92
                  PROBABLE INTRON MATURASE >gi 99852 pir S07168 probable
NCBI Description
                  maturase, 63K - white mustard chloroplast
                  >gi 12220 emb CAA28509 (X04826) ycf14 (AA1-324) [Sinapis
                  alba]
Seq. No.
                  144446
                  LIB3168-044-P1-K1-E2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4454447
BLAST score
                  37
E value
                  3.0e-11
Match length
                  85
% identity
                  Arabidopsis thaliana chromosome II BAC F5H14 genomic
NCBI Description
```

sequence, complete sequence [Arabidopsis thaliana]

```
144447
Seq. No.
Seq. ID
                  LIB3168-044-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  542
                  1.0e-55
E value
Match length
                  139
% identity
                  78
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144448
Seq. No.
Seq. ID
                  LIB3168-044-P1-K1-E6
                  BLASTX
Method
NCBI GI
                  g166570
BLAST score
                  198
                  2.0e-15
E value
                  97
Match length
% identity
NCBI Description
                  (L04173) glycine rich protein [Arabidopsis thaliana]
                  144449
Seq. No.
Seq. ID
                  LIB3168-044-P1-K1-F1
Method
                  BLASTN
NCBI GI
                  q16726
BLAST score
                  108
                  6.0e-54
E value
Match length
                  142
% identity
                  94
                  ATTS0156 Gif-SeedA+B Arabidopsis thaliana cDNA clone
NCBI Description
                  YAP007T, mRNA sequence [Arabidopsis thaliana]
                  >gi 1107498 emb X91953 ATORF007 A.thaliana mRNA for unknown
                  protein (clone YAP007)
Seq. No.
                  144450
                  LIB3168-044-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  568
E value
                  1.0e-58
                  133
Match length
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144451
Seq. ID
                  LIB3168-044-P1-K1-F12
                  BLASTN
Method
NCBI GI
                  g4199934
BLAST score
                  225
E value
                  1.0e-123
Match length
                  229
```

100

% identity

```
Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
Seq. No.
                   LIB3168-044-P1-K1-F3
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1351272
BLAST score
                   448
E value
                   1.0e-44
Match length
                   106
% identity
                   84
                   TRIOSEPHOSPHATE ISOMERASE, CYTOSOLIC (TIM) >gi 414550
NCBI Description
                   (U02949) cytosolic triose phosphate isomerase [Arabidopsis
                   thaliana] >gi 742408 prf 2009415A triose phosphate
                   isomerase [Arabidopsis thaliana]
Seq. No.
                   144453
                   LIB3168-044-P1-K1-F4
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112739
BLAST score
                   360
E value
                   3.0e-34
Match length
                   126
% identity
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
Seq. No.
                   144454
Seq. ID
                   LIB3168-044-P1-K1-F5
Method
                   BLASTX
NCBI GI
                   q543632
BLAST score
                   470
E value
                   3.0e-47
Match length
                   134
% identity
                   65
                   aldehyde reductase (EC 1.1.1.21), NADPH-dependent -
NCBI Description
                   bromegrass >gi 167113 (L12042) aldose reductase-related
                   protein [Bromus inermis]
Seq. No.
                   144455
Seq. ID
                   LIB3168-044-P1-K1-F6
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   610
E value
                   1.0e-63
Match length
                   134
% identity
                   89
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870.
```

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]

```
precursor [Arabidopsis thaliana]
                  144456
Seq. No.
                  LIB3168-044-P1-K1-F7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g418908
                  178
BLAST score
                   6.0e-13
E value
                  73
Match length
% identity
NCBI Description
                  vicilin precursor - cacao
Seq. No.
                  144457
                  LIB3168-044-P1-K1-F9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2894574
BLAST score
                  625
E value
                  2.0e-65
Match length
                  121
                   99
% identity
NCBI Description
                   (AL021890) peroxidase prxr1 [Arabidopsis thaliana]
                  >gi_2961341_emb_CAA18099.1_ (AL022140) peroxidase prxr1
                   [Arabidopsis thaliana]
                  144458
Seq. No.
Seq. ID
                  LIB3168-044-P1-K1-G1
Method
                  BLASTX
NCBI GI
                  g3776023
BLAST score
                  575
E value
                  2.0e-59
Match length
                  116
% identity
                  99
NCBI Description
                   (AJ010473) RNA helicase [Arabidopsis thaliana]
Seq. No.
                  144459
Seq. ID
                  LIB3168-044-P1-K1-G11
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  485
E value
                  6.0e-49
Match length
                  126
                  77
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144460
Seq. No.
Seq. ID
                  LIB3168-044-P1-K1-G2
Method
                  BLASTN
NCBI GI
                  q4580454
BLAST score
                  367
E value
                  0.0e+00
Match length
                  391
                  98
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T2G17 genomic
```

>qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1

sequence, complete sequence

```
Seq. No.
                  144461
                  LIB3168-044-P1-K1-G3
Seq. ID
                  BLASTN
Method
                  g3335170
NCBI GI
                  166
BLAST score
                  2.0e-88
E value
Match length
                  265
% identity
                  91
                  Arabidopsis thaliana embryo-specific protein 3 (ATS3) gene,
NCBI Description
                  complete cds
                  144462
Seq. No.
                  LIB3168-044-P1-K1-G4
Seq. ID
                  BLASTN
Method
NCBI GI
                  g3449320
BLAST score
                  199
E value
                  1.0e-108
Match length
                  421
                  88
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MRB17, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144463
Seq. ID
                  LIB3168-044-P1-K1-G5
Method
                  BLASTX
NCBI GI
                  q112737
                  550
BLAST score
E value
                  1.0e-56
Match length
                  133
                  80
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144464
Seq. ID
                  LIB3168-044-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144465
                  LIB3168-044-P1-K1-G8
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
BLAST score
                  578
E value
                  7.0e-60
```

```
Match length
                   135
% identity
                   81
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                   144466
Seq. ID
                  LIB3168-044-P1-K1-G9
Method
                  BLASTX
NCBI GI
                   q3850579
BLAST score
                   637
E value
                   9.0e-67
Match length
                   136
% identity
NCBI Description
                   (AC005278) Strong similarity to gb D14550 extracellular
                  dermal glycoprotein (EDGP) precursor from Daucus carota.
                  ESTs gb_H37281, gb_T44167, gb_T21813, gb_N38437, gb_Z26470,
                  gb_R65072, gb_N76373, gb_F15470, gb_Z35182, gb_H76373,
                  gb_Z34678 an
Seq. No.
                  144467
Seq. ID
                  LIB3168-044-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  240
                  8.0e-21
E value
Match length
                  50
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144468
Seq. ID
                  LIB3168-044-P1-K1-H10
Method
                  BLASTX
NCBI GI
                  q1176671
BLAST score
                  277
É value
                  1.0e-24
Match length
                  88
% identity
                  PUTATIVE GLUCOSYLTRANSFERASE C08B11.8
NCBI Description
                  >gi_3874174_emb_CAA86666_ (Z46676) C08B11.8 [Caenorhabditis
                  elegans]
Seq. No.
                  144469
Seq. ID
                  LIB3168-044-P1-K1-H11
Method
                  BLASTX
NCBI GI
                  q3860260
BLAST score
                  292
                  2.0e-26
E value
Match length
                  62
% identity
NCBI Description
                   (AC005824) putative acidic ribosomal protein [Arabidopsis
```

thaliana]

```
144470
Seq. No.
                  LIB3168-044-P1-K1-H12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3395432
BLAST score
                  270
E value
                  9.0e-24
                  91
Match length
% identity
NCBI Description
                  (AC004683) unknown protein [Arabidopsis thaliana]
Seq. No.
                  144471
                  LIB3168-044-P1-K1-H2
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3449311
BLAST score
                  195
                  1.0e-105
E value
                  417
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K15I22, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144472
Seq. ID
                  LIB3168-044-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  a112681
BLAST score
                  598
                  3.0e-62
E value
                  137
Match length
                  85
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144473
Seq. ID
                  LIB3168-044-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  q3023848
BLAST score
                  518
E value
                  7.0e-53
Match length
                  108
                  36
% identity
NCBI Description
                  GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE
                  PROTEIN (WD-40 REPEAT AUXIN-DEPENDENT PROTEIN ARCA)
                  >gi 2289095 (U77381) WD-40 repeat protein [Arabidopsis
                  thaliana]
Seq. No.
                  144474
Seq. ID
                  LIB3168-044-P1-K1-H8
Method
                  BLASTX
NCBI GI
                  a633890
BLAST score
                  307
E value
                  4.0e-28
Match length
                  106
% identity
NCBI Description
                  (S72926) glucose and ribitol dehydrogenase homolog [Hordeum
```

E value

2.0e-13

### vulgare] 144475 Seq. No. Seq. ID LIB3168-044-P1-K1-H9 Method BLASTX NCBI GI g2980784 BLAST score 701 E value 3.0e-74Match length 137 % identity 21 NCBI Description (AL022198) puative protein [Arabidopsis thaliana] 144476 Seq. No. Seq. ID LIB3168-045-P1-K1-A1 Method BLASTN NCBI GI q4589437 BLAST score 171 E value 1.0e-91 Match length 187 % identity Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone: NCBI Description MPN9, complete sequence Seq. No. 144477 Seq. ID LIB3168-045-P1-K1-A10 Method BLASTN NCBI GI a987013 BLAST score 95 E value 3.0e-46 Match length 119 % identity 95 A.thaliana mRNA for oleosin (isoform; 841 bp) NCBI Description >gi\_987015\_emb\_Z54165\_ATOLEOSN3 A.thaliana mRNA for oleosin (isoform; 841 bp) Seq. No. 144478 Seq. ID LIB3168-045-P1-K1-A12 Method BLASTX NCBI GI q112739 BLAST score 421 E value 2.0e-41 Match length 120 % identity 71 NCBI Description 2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68854\_pir\_\_NWMU2 2S albumin 2 precursor -Arabidopsis thaliana >gi\_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi\_395205\_emb\_CAA80871\_ (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana] >gi\_4490711\_emb\_CAB38845.1\_ (AL035680) NWMU2-2S albumin 2 precursor [Arabidopsis thaliana] Seq. No. 144479 Seq. ID LIB3168-045-P1-K1-A2 Method BLASTN NCBI GI g16335 BLAST score 40

```
109
Match length
                  93
% identity
NCBI Description
                  Arabidopsis thaliana mRNA for 3-hydroxy-3-methylglutaryl
                  CoA reductase (EC 1.1.1.34)
                  144480
Seq. No.
Seq. ID
                  LIB3168-045-P1-K1-A4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  591
                  2.0e-61
E value
                  128
Match length
                  88
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144481
Seq. ID
                  LIB3168-045-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  283
E value
                  3.0e-25
Match length
                  130
% identity
                  39
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144482
Seq. ID
                  LIB3168-045-P1-K1-A6
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  542
E value
                  1.0e-55
Match length
                  144
                  76
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144483
Seq. ID
                  LIB3168-045-P1-K1-A7
Method
                  BLASTX
NCBI GI
                  q123340
BLAST score
                  536
E value
                  4.0e-55
                  106
Match length
                  98
% identity
                  3-HYDROXY-3-METHYLGLUTARYL-COENZYME A REDUCTASE 1 (HMG-COA
NCBI Description
```

REDUCTASE 1) (HMGR1) >gi 99714 pir A32107

```
hydroxymethylglutaryl-CoA reductase (NADPH) (EC 1.1.1.34) - Arabidopsis thaliana >gi_16336_emb_CAA33139_ (X15032) hydroxy methylglutaryl CoA reductase (AA 1-592) [Arabidopsis thaliana] >gi_166750 (J04537) 3-hydroxy-3-methylglutaryl CoA reductase [Arabidopsis thaliana] >gi_388556 (L19261) hydroxymethylglutaryl CoA reductase [Arabidopsis thaliana]
```

 Seq. No.
 144484

 Seq. ID
 LIB3168-045-P1-K1-A9

 Method
 BLASTX

 NCBI GI
 g112741

 BLAST score
 599

 E value
 2.0e-62

E value 2.00 Match length 112 % identity 98

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit. 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

3 precursor [Arabidopsis thaliana] >g1\_395201\_emb\_CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3
precursor [Arabidopsis thaliana]

Seq. No. 144485

Seq. ID LIB3168-045-P1-K1-B1

Method BLASTX
NCBI GI g112682
BLAST score 491
E value 8.0e-50
Match length 112
% identity 87

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir\_\_S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937 emb\_CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144486

Seq. ID LIB3168-045-P1-K1-B10

Method BLASTX
NCBI GI g112681
BLAST score 490
E value 1.0e-49
Match length 133
% identity 77

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144487

Seq. ID LIB3168-045-P1-K1-B11

Method BLASTN NCBI GI g3869073 BLAST score 18

```
E value
                  3.9e + 00
Match length
                  294
                  91
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MKN22, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144488
                  LIB3168-045-P1-K1-B12
Seq. ID
Method
                  BLASTN
                  q3869073
NCBI GI
BLAST score
                  68
                  6.0e-30
E value
Match length
                  88
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MKN22, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144489
                  LIB3168-045-P1-K1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3157930
BLAST score
                  530
E value
                  3.0e-54
Match length
                  124
% identity
                  82
NCBI Description
                  (AC002131) Strong similarity to
                  amino-cyclopropane-carboxylic acid oxidase gb L27664 from
                  Brassica napus. ESTs gb Z48548 and gb Z48549 come from
                  this gene. [Arabidopsis thaliana]
Seq. No.
                  144490
                  LIB3168-045-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3157930
BLAST score
                  541
E value
                  1.0e-55
Match length
                  110
% identity
                   (AC002131) Strong similarity to
NCBI Description
                  amino-cyclopropane-carboxylic acid oxidase gb L27664 from
                  Brassica napus. ESTs gb Z48548 and gb Z48549 come from
                  this gene. [Arabidopsis thaliana]
Seq. No.
                  144491
                  LIB3168-045-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  491
E value
                  1.0e-49
                  107
Match length
% identity
                  86
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
```

>gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

% identity

NCBI Description

91

#### precursor [Arabidopsis thaliana] Seq. No. 144492 LIB3168-045-P1-K1-B5 Seq. ID BLASTX Method NCBI GI g1628583 BLAST score 710 E value 3.0e-75 138 Match length 99 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 144493 Seq. No. LIB3168-045-P1-K1-B6 Seq. ID Method BLASTN NCBI GI g3242970 BLAST score 58 7.0e-24 E value Match length 362 % identity 84 Arabidopsis thaliana BAC T4I9, chromosome IV, near 17 cM, NCBI Description complete sequence [Arabidopsis thaliana] Seq. No. 144494 Seq. ID LIB3168-045-P1-K1-B7 Method BLASTX NCBI GI g4204298 BLAST score 628 E value 1.0e-65 Match length 135 % identity 90 NCBI Description (AC003027) lcl prt seq No definition line found [Arabidopsis thaliana] Seq. No. 144495 LIB3168-045-P1-K1-B8 Seq. ID Method BLASTN NCBI GI q2760173 BLAST score 288 E value 1.0e-161 Match length 431 % identity 98 NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MYH19, complete sequence [Arabidopsis thaliana] Seq. No. 144496 Seq. ID LIB3168-045-P1-K1-B9 Method BLASTX NCBI GI g1628583 BLAST score 747 E value 1.0e-79 Match length 159

(U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

Method

BLASTX

## cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                   144497
                   LIB3168-045-P1-K1-C10
Seq. ID
                   BLASTX
Method
NCBI GI
                   g1628583
                   763
BLAST score
E value
                   2.0e-81
Match length
                   150
% identity
                   98
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144498
Seq. ID
                   LIB3168-045-P1-K1-C11
Method
                   BLASTX
NCBI GI
                   g3335169
BLAST score
                   787
E value
                   3.0e-84
Match length
                   147
% identity
                   99
NCBI Description
                   (AF067857) embryo-specific protein 1 [Arabidopsis thaliana]
                  >gi_4455197_emb_CAB36520.1_ (AL035440) embryo-specific
protein 1 (ATS1) [Arabidopsis thaliana]
Seq. No.
                   144499
                   LIB3168-045-P1-K1-C2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   634
E value
                   2.0e-66
Match length
                   147
% identity
                   82
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   144500
Seq. ID
                   LIB3168-045-P1-K1-C3
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   685
E value
                   2.0e-72
Match length
                   141
                   89
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81605 pir __$08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   144501
Seq. ID
                   LIB3168-045-P1-K1-C4
```

```
g112741
NCBI GI
BLAST score
                  764
E value
                  1.0e-81
                  144
Match length
                  99
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir_NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144502
Seq. ID
                  LIB3168-045-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  g3603456
BLAST score
                  687
E value
                  1.0e-72
Match length
                  142
% identity
                  30
NCBI Description
                  (AF088848) polyubiquitin [Capsicum chinense]
Seq. No.
                  144503
Seq. ID
                  LIB3168-045-P1-K1-C6
Method
                  BLASTN
NCBI GI
                  q3650026
                  77
BLAST score
E value
                  3.0e-35
Match length
                  138
% identity
                  94
                  Arabidopsis thaliana chromosome II BAC T26I20 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144504
Seq. ID
                  LIB3168-045-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  g730526
BLAST score
                  756
E value
                  1.0e-80
Match length
                  149
% identity
                  97
                  60S RIBOSOMAL PROTEIN L13 (BBC1 PROTEIN HOMOLOG)
NCBI Description
                  >gi 480787 pir S37271 ribosomal protein L13 - Arabidopsis
                  thaliana >gi 404166 emb_CAA53005_ (X75162) BBC1 protein
                  [Arabidopsis thaliana]
Seq. No.
                  144505
                  LIB3168-045-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g730526
BLAST score
                  160
E value
                  7.0e-11
                  98
Match length
                  41
% identity
                  60S RIBOSOMAL PROTEIN L13 (BBC1 PROTEIN HOMOLOG)
NCBI Description
                  >gi 480787 pir S37271 ribosomal protein L13 - Arabidopsis
```

Seq. No.

144510

```
144506
Seq. No.
                    LIB3168-045-P1-K1-D1
Seq. ID
Method
                    BLASTX
NCBI GI
                    g112741
BLAST score
                    758
E value
                    7.0e-81
Match length
                    145
                    97
% identity
                    2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                    PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                    Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201 emb_CAA80868_
                    (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                    >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                    precursor [Arabidopsis thaliana]
Seq. No.
                    144507
Seq. ID
                    LIB3168-045-P1-K1-D10
Method
                    BLASTX
NCBI GI
                    q1628583 °
BLAST score
                    724
E value
                    6.0e-77
Match length
                    145
                    99
% identity
NCBI Description
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    144508
Seq. ID
                    LIB3168-045-P1-K1-D11
Method
                    BLASTX
NCBI GI
                    q112682
BLAST score
                    120
E value
                    4.0e-06
Match length
                    134
% identity
                    66
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
Seq. No.
                    144509
Seq. ID
                    LIB3168-045-P1-K1-D2
Method
                    BLASTX
NCBI GI
                    q2529665
BLAST score
                    531
E value
                    3.0e-54
Match length
                    139
% identity
                    78
NCBI Description
                    (AC002535) putative ribosomal protein L7A [Arabidopsis
                    thaliana]
```

thaliana >qi 404166 emb CAA53005 (X75162) BBC1 protein

[Arabidopsis thaliana]

Method

BLASTX

```
Seq. ID
                  LIB3168-045-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  g2529665
BLAST score
                  202
                  8.0e-16
E value
                  61
Match length
% identity
NCBI Description
                  (AC002535) putative ribosomal protein L7A [Arabidopsis
                  thaliana]
Seq. No.
                  144511
Seq. ID
                  LIB3168-045-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  749
                  7.0e-80
E value
Match length
                  144
                  96
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir_NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144512
Seq. ID
                  LIB3168-045-P1-K1-D5
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  533
                  2.0e-54
E value
Match length
                  142
% identity
                  75
NCBI Description
                  25 SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_ ,
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144513
Seq. ID
                  LIB3168-045-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  455
E value
                  1.0e-45
                  97
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144514
Seq. No.
Seq. ID
                  LIB3168-045-P1-K1-D8
```

NCBI Description

```
NCBI GI
                  q1628583
BLAST score
                  427
                  4.0e-42
E value
Match length
                  117
                  74
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144515
Seq. No.
Seq. ID
                  LIB3168-045-P1-K1-E1
Method
                  BLASTX
NCBI GI
                  q118926
BLAST score
                  291
E value
                  4.0e-26
Match length
                  115
                  50
% identity
                  DESSICATION-RELATED PROTEIN CLONE PCC13-62 PRECURSOR
NCBI Description
                  >gi_320600_pir__E45509 desiccation-related protein (clone
                  PCC13-62) - Craterostigma plantagineum >gi_167479 (M62991)
                  dessication-related protein [Craterostigma plantagineum]
                  >gi_227781_prf__1710351E abscisic acid responsive protein E
                  [Craterostigma plantagineum]
Seq. No.
                  144516
Seq. ID
                  LIB3168-045-P1-K1-E10
Method
                  BLASTX
NCBI GI
                  a1628583
                  620
BLAST score
                  1.0e-64
E value
Match length
                  146
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144517
                  LIB3168-045-P1-K1-E11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  617
E value
                  2.0e-64
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144518
                  LIB3168-045-P1-K1-E2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  646
                  9.0e-68
E value
Match length
                  147
% identity
```

12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir \$08510

```
cruciferin precursor (CRB) - Arabidopsis thaliana
>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
storage protein [Arabidopsis thaliana]
144519
```

```
Seq. No.
Seq. ID
                   LIB3168-045-P1-K1-E3
Method
                   BLASTX
                   g2623303
NCBI GI
BLAST score
                   719
                   2.0e-76
E value
Match length
                   141
```

% identity 98 NCBI Description (AC002409) putative cytochrome P450 [Arabidopsis thaliana]

Seq. No. 144520

Seq. ID LIB3168-045-P1-K1-E4

Method BLASTX NCBI GI g1628583 392 BLAST score E value 5.0e-38 Match length 81 % identity 96

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

> thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

e 2. 144521 Seq. No.

Seq. ID LIB3168-045-P1-K1-E6

Method BLASTX NCBI GI g1402904 BLAST score 713 E value 1.0e-75 Match length 144

% identity 96

NCBI Description (X98313) peroxidase [Arabidopsis thaliana]

Seq. No. 144522

Seq. ID LIB3168-045-P1-K1-E7

Method BLASTX NCBI GI g112682 BLAST score 612 E value 8.0e-64 Match length 144 % identity 81

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144523

Seq. ID LIB3168-045-P1-K1-E9

BLASTX Method NCBI GI g112682 BLAST score 684 3.0e-72 E value

Seq. ID Method

```
Match length
                  154
% identity
                  84
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144524
Seq. ID
                  LIB3168-045-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  609
E value
                  2.0e-63
Match length
                  145
% identity
                  82
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
            16
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144525
Seq. ID
                  LIB3168-045-P1-K1-F10
Method
                  BLASTX
NCBI GI
                  q112739 -
BLAST score
                  409
                  4.0e-40
E value
Match length
                  119
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144526
Seq. ID
                  LIB3168-045-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  375
E value
                  4.0e-36
Match length
                  113
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144527
```

LIB3168-045-P1-K1-F12

BLASTX

```
g1628583
NCBI GI
                  692
BLAST score
                  3.0e-73
E value
Match length
                  136
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144528
Seq. ID
                  LIB3168-045-P1-K1-F3
Method
                  BLASTX
                  q881615
NCBI GI
                  722
BLAST score
E value
                  1.0e-76
Match length
                  147
% identity
                  97
                   (U29142) fatty acid elongase 1 [Arabidopsis thaliana]
NCBI Description
                  >gi 3096921 emb CAA18831.1_ (AL023094) fatty acid elongase
                  1 [Arabidopsis thaliana]
                  144529
Seq. No.
Seq. ID
                  LIB3168-045-P1-K1-F4
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  630
                  6.0e-66
E value
Match length
                  145
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144530
Seq. ID
                  LIB3168-045-P1-K1-F5
Method
                  BLASTN
NCBI GI
                  q3449329
BLAST score
                  346
E value
                  0.0e + 00
Match length
                  446
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MDH9, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144531
Seq. ID
                  LIB3168-045-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  752
                  3.0e-80
E value
Match length
                  144
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir_
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
```

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis

```
storage protein [Arabidopsis thaliana]
Seq. No.
                   144532
                   LIB3168-045-P1-K1-F9
Seq. ID
Method
                   BLASTX
NCBI GI
                   q3386609
BLAST score
                   88
E value
                   2.0e-31
Match length
                   118
% identity
                   (AC004665) putative DNA-binding protein [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   144533
                   LIB3168-045-P1-K1-G1
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4580400
BLAST score
                   423
E value
                   0.0e + 00
Match length
                   467
                   98
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T16I21 genomic
                   sequence, complete sequence
                   144534
Seq. No.
Seq. ID
                   LIB3168-045-P1-K1-G10
Method
                   BLASTX
                   q3337356
NCBI GI
BLAST score
                   545
E value
                   5.0e-56
Match length
                   107
% identity
                   100
NCBI Description
                   (AC004481) putative protein transport protein SEC61 alpha
                   subunit [Arabidopsis thaliana]
Seq. No.
                   144535
                  LIB3168-045-P1-K1-G4
Seq. ID
Method
                   BLASTN
                   g4063735
NCBI GI
BLAST score
                   133
E value
                   1.0e-68
Match length
                   220
% identity
                  Arabidopsis thaliana BAC F18G18 from chromosome V near 60.5
NCBI Description
                  cM, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144536
Seq. ID
                  LIB3168-045-P1-K1-G5
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                   499
E value
                   2.0e-50
                  142
Match length
                   72
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
```

thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

PROTEIN) >gi\_68854\_pir\_\_NWMU2 2S albumin 2 precursor -

Arabidopsis thaliana >gi\_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi\_395205\_emb\_CAA80871\_ (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana] >gi\_4490711\_emb\_CAB38845.1\_ (AL035680) NWMU2-2S albumin 2 precursor [Arabidopsis thaliana]

Seq. No. 144537 Seq. ID LIB3168-045-P1-K1-G7 Method BLASTX NCBI GI q112737 BLAST score 45 E value 5.0e-69 Match length 148 89 % identity NCBI Description

2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]

>gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

precursor [Arabidopsis thaliana]

Seq. No. 144538 Seq. ID LIB3168-045-P1-K1-G9 Method BLASTX NCBI GI q1628583 BLAST score 492 8.0e-50 E value

Match length 127 % identity

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144539

Seq. ID LIB3168-045-P1-K1-H1

Method BLASTX NCBI GI g112741 BLAST score 773 E value 1.0e-82 Match length 145 % identity 99

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit,

3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 144540

Seq. ID LIB3168-045-P1-K1-H11

Method BLASTX NCBI GI g99742 BLAST score 548 E value 3.0e-56 Match length 125

Match length

154

```
% identity
                  2-dehydro-3-deoxyphosphoheptonate aldolase (EC 4.1.2.15) 1
NCBI Description
                  - Arabidopsis thaliana
                  144541
Seq. No.
                  LIB3168-045-P1-K1-H12
Seq. ID
                  BLASTX
Method
                  q2129577
NCBI GI
BLAST score
                  396
                  1.0e-38
E value
Match length
                  78
                  96
% identity
                  DnaJ homolog protein - Arabidopsis thaliana >gi 727357
NCBI Description
                   (U22340) DnaJ homolog [Arabidopsis thaliana]
Seq. No.
                  144542
                  LIB3168-045-P1-K1-H2
Seq. ID
Method
                  BLASTX
                  g3169719
NCBI GI
BLAST score
                  572
E value
                  5.0e-62
                  123
Match length
                  100
% identity
                   (AF007109) similar to yeast dcpl [Arabidopsis thaliana]
NCBI Description
                  144543
Seq. No.
                  LIB3168-045-P1-K1-H3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1723275
BLAST score
                  261
                  1.0e-22
E value
Match length
                  104
                  51
% identity
                  HYPOTHETICAL 55.6 KD PROTEIN C13F4.15C IN CHROMOSOME I
NCBI Description
                  >gi_2130223_pir__S67390 hypothetical protein - fission
                  yeast (Schizosaccharomyces pombe) >gi_3451294_emb_CAA20426_
                   (AL031322) putative diphthamide biosynthesis protein
                   [Schizosaccharomyces pombe]
                  144544
Seq. No.
                  LIB3168-045-P1-K1-H4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2160182
BLAST score
                  201
E value
                  1.0e-15
Match length
                  63
                  56
% identity
NCBI Description
                   (AC000132) ESTs qb ATTS1236,qb T43334,qb N97019,qb_AA395203
                  come from this gene. [Arabidopsis thaliana]
                  144545
Seq. No.
Seq. ID
                  LIB3168-045-P1-K1-H5
Method
                  BLASTN
                  q3445196
NCBI GI
BLAST score
                  41
                  1.0e-13
E value
```

```
% identity
                    Arabidopsis thaliana chromosome II BAC T20K9 genomic
NCBI Description
                    sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                    144546
                    LIB3168-045-P1-K1-H6
Seq. ID
Method
                    BLASTX
NCBI GI
                    g3738320
BLAST score
                    538
E value
                    4.0e-55
Match length
                    146
                    72
% identity
                     (AC005170) putative cinnamoyl CoA reductase [Arabidopsis
NCBI Description
                    thalianal
                    144547
Seq. No.
                    LIB3168-045-P1-K1-H7
Seq. ID
Method
                    BLASTX
NCBI GI
                    g112681
BLAST score
                    101
E value
                    8.0e-66
Match length
                    132
% identity
                    100
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                    cruciferin precursor (CRA1) - Arabidopsis thaliana

$\mathref{gi}_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
Seq. No.
                    144548
Seq. ID
                    LIB3168-045-P1-K1-H8
Method
                    BLASTX
NCBI GI
                    q112682
BLAST score
                    649
E value
                    4.0e-68
Match length
                    151
% identity
                    81
NCBI Description
                    12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
Seq. No.
                    144549
Seq. ID
                    LIB3168-045-P1-K1-H9
Method
                    BLASTX
NCBI GI
                    g120675
BLAST score
                    451
E value
                    6.0e-45
Match length
                    107
% identity
                    81
NCBI Description
                    GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, CYTOSOLIC
                    >gi_66011_pir__DEIS3C glyceraldehyde-3-phosphate
dehydrogenase (EC 1.2.1.12), cytosolic - white mustard
                    >gi_21143_emb_CAA27844_ (X04301) GAPDH (aa 1-338) [Sinapis
```

albal

BLAST score

120

```
Seq. No.
                  144550
                  LIB3168-046-P1-K1-A1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3492855
BLAST score
                  326
E value
                  0.0e+00
                  382
Match length
% identity
                  Genomic sequence for Arabidopsis thaliana BAC F20N2,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  144551
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-A10
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  590
                  3.0e-61
E value
                  144
Match length
                  80
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144552
                  LIB3168-046-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  577
                  1.0e-59
E value
Match length
                  142
                  79
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  144553
Seq. No.
                  LIB3168-046-P1-K1-A12
Seq, ID
Method
                  BLASTN
NCBI GI
                  g4454447
                  37
BLAST score
E value
                  3.0e-11
Match length
                  85
                  86
% identity
                  Arabidopsis thaliana chromosome II BAC F5H14 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144554
                  LIB3168-046-P1-K1-A2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
```

```
E value
                   2.0e-35
Match length
                   120
                   71
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   tha\overline{\text{liana}} >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   144555
Seq. ID
                   LIB3168-046-P1-K1-A3
Method
                   BLASTX
NCBI GI
                   q1171978
BLAST score
                   401
E value
                   4.0e-39
Match length
                   145
                   62
% identity
                   POLYADENYLATE-BINDING PROTEIN 2 (POLY(A) BINDING PROTEIN 2)
NCBI Description
                   (PABP 2) >gi_304109 (L19418) poly(A)-binding protein
                   [Arabidopsis thaliana] >gi_2911051_emb_CAA17561_ (AL021961)
                   poly(A)-binding protein [Arabidopsis thaliana]
Seq. No.
                   144556
Seq. ID
                   LIB3168-046-P1-K1-A4
Method
                   BLASTX
NCBI GI
                   q112682
                   592
BLAST score
                   2.0e-61
E value
Match length
                   123
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir _S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsīs thaliana
                   >gi_166678 (M37248) 12S storage protein CRB (Arabidopsis
thaliana) >gi_808937_emb_CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   144557
                   LIB3168-046-P1-K1-A5
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   513
E value
                   2.0e-52
Match length
                   111
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144558
                   LIB3168-046-P1-K1-A7
Seq. ID
Method
                   BLASTN
NCBI GI
                   q1592685
BLAST score
                   66
                   8.0e-29
E value
Match length
                   154
% identity
                   86
NCBI Description A.thaliana mRNA for oleosin type4 protein
```

Match length

```
Seq. No.
                  144559
                  LIB3168-046-P1-K1-A8
Seq. ID
Method
                  BLASTN
                  g1628582
NCBI GI
                  71
BLAST score
                  5.0e-32
E value
                  159
Match length
% identity
                  75
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                   (ATCRU3) gene, complete cds
                  144560
Seq. No.
                  LIB3168-046-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  621
                  6.0e-65
E value
                  123
Match length
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                   (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  144561
Seq. No.
                  LIB3168-046-P1-K1-B11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4199934
BLAST score
                  182
                  3.0e-98
E value
                  190
Match length
% identity
NCBI Description
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  144562
                  LIB3168-046-P1-K1-B12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4432829
BLAST score
                  422
E value
                  0.0e + 00
Match length
                  439
% identity
                  99
                  Arabidopsis thaliana chromosome II BAC T1B3 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144563
Seq. ID
                  LIB3168-046-P1-K1-B3
Method
                  BLASTX
NCBI GI
                  g267073
BLAST score
                  496
E value
                  3.0e-50
                  107
```

```
% identity
NCBI Description
                   TUBULIN BETA-2/BETA-3 CHAIN >gi_320184_pir__JQ1587 tubulin
                   beta chain - Arabidopsis thaliana >gi_166898 (M84700)
beta-2 tubulin [Arabidopsis thaliana] >gi_166900 (M84701)
                   beta-3 tubulin [Arabidopsis thaliana]
                   144564
Seq. No.
                   LIB3168-046-P1-K1-B4
Seq. ID
Method
                   BLASTX
NCBI GI
                   q3080402
BLAST score
                   453
                   3.0e-45
E value
Match length
                   105
% identity
NCBI Description
                   (AL022603) putative NADPH quinone oxidoreductase
                   [Arabidopsis thaliana] >gi 4455266 emb CAB36802.1
                   (AL035527) putative NADPH quinone oxidoreductase
                   [Arabidopsis thaliana]
Seq. No.
                   144565
Seq. ID
                   LIB3168-046-P1-K1-B5
Method
                   BLASTN
                   g4079614
NCBI GI
BLAST score
                   63
E value
                   4.0e-27
Match length
                   115
                   89
% identity
                   Arabidopsis thaliana chromosome I BAC F21M11 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   144566
Seq. ID
                   LIB3168-046-P1-K1-B6
Method
                   BLASTX
NCBI GI
                   q112741
BLAST score
                   671
E value
                   1.0e-70
Match length
                   139
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   144567
Seq. ID
                   LIB3168-046-P1-K1-B7
Method
                   BLASTX
NCBI GI
                   q112737
BLAST score
                   305
E value 4.
                   5.0e-28
                   106
Match length
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
```

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit

Method

BLASTN

```
>gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   144568
Seq. No.
                   LIB3168-046-P1-K1-B8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g126079
BLAST score
                   122
E value
                   2.0e-06
Match length
                   140
% identity
                   17
                   LATE EMBRYOGENESIS ABUNDANT PROTEIN 76 (LEA 76)
NCBI Description
                   >gi_81683_pir__S04130 embryonic abundant protein (clone
                   pLEA76) - rape >gi_17829_emb_CAA33406_ (X15348) LEA76 peptide (AA 1-280) [Brassica napus]
                   >gi 226789 prf 1605299A Lea76 gene [Brassica napus]
                   144569
Seq. No.
Seq. ID
                   LIB3168-046-P1-K1-B9
                   BLASTN
Method
NCBI GI
                   g2842474
BLAST score
                   67
E value
                   9.0e-30
Match length
                   123
% identity
                   98
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                   (ESSAII project)
                   144570
Seq. No.
                   LIB3168-046-P1-K1-C1
Seq. ID
Method
                   BLASTN
NCBI GI
                   g3241924
BLAST score
                   160
E value
                   8.0e-85
Match length
                   180
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MNC6, complete sequence [Arabidopsis thaliana]
                   144571
Seq. No.
                   LIB3168-046-P1-K1-C11
Seq. ID
Method
                   BLASTX
                   g3080402
NCBI GI
BLAST score
                   692
E value
                   3.0e-73
Match length
                   135
% identity
                   (AL022603) putative NADPH quinone oxidoreductase
NCBI Description
                   [Arabidopsis thaliana] >gi_4455266_emb_CAB36802.1_
                   (AL035527) putative NADPH quinone oxidoreductase
                   [Arabidopsis thaliana]
Seq. No.
                   144572
                   LIB3168-046-P1-K1-C12
Seq. ID
```

1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]

```
NCBI GI
                   g4220631
BLAST score
                   410
E value
                  0.0e+00
Match length
                   439
                   98
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K5J14, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144573
                  LIB3168-046-P1-K1-C2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4159707
BLAST score
                  259
E value
                  1.0e-144
Match length
                   423
                   90
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MJK13, complete sequence
Seq. No.
                  144574
Seq. ID
                  LIB3168-046-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  632
E value
                  4.0e-66
Match length
                  144
                  85
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144575
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-C4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  480
E value
                  1.0e-48
Match length
                  92
                  100
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144576
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  626
E value
                  2.0e-65
Match length
                  143
% identity
                  83
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
```

thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

## storage protein [Arabidopsis thaliana]

```
144577
Seq. No.
                  LIB3168-046-P1-K1-C6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  456
E value
                  2.0e-45
Match length
                  123
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144578
Seq. ID
                  LIB3168-046-P1-K1-C7
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  427
E value
                  4.0e-42
Match length
                  86
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144579
Seq. No.
                  LIB3168-046-P1-K1-C8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  551 .
                  1.0e-56
E value
Match length
                  142
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144580
Seq. ID
                  LIB3168-046-P1-K1-C9
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  552
E value
                  8.0e-57
Match length
                  116
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144581
Seq. ID
                  LIB3168-046-P1-K1-D1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  445
E value
                  2.0e-44
Match length
                  95
```

```
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144582
Seq. No.
                  LIB3168-046-P1-K1-D10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  749
E value
                  7.0e-80
Match length
                  146
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144583
Seq. ID
                  LIB3168-046-P1-K1-D11
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  605
E value
                  5.0e-63
Match length
                  143
                  82
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144584
Seq. ID
                  LIB3168-046-P1-K1-D2
Method
                  BLASTN
NCBI GI
                  q2979540
BLAST score
                  284
E value
                  1.0e-158
Match length
                  430
                  99
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F17K2 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
                  144585
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  761
                  3.0e-81
E value
Match length
                  146
                  99
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937 emb CAA32494 (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

E value

```
Seq. No.
                  144586
                  LIB3168-046-P1-K1-D4
Seq. ID
                  BLASTN
Method
                  q2760169
NCBI GI
                  41
BLAST score
                  5.0e-14
E value
                  166
Match length
                  80
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MFB13, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144587
                  LIB3168-046-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  547
                  3.0e-56
E value
                  118
Match length
                  93
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144588
                  LIB3168-046-P1-K1-D6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2760606
                  376
BLAST score
E value
                  2.0e-36
                  77
Match length
% identity
                  (AB001568) phospholipid hydroperoxide glutathione
NCBI Description
                  peroxidase-like protein [Arabidopsis thaliana] >gi_3004869
                  (AF030132) glutathione peroxidase; ATGP1 [Arabidopsis
                  thaliana] >gi_4539451_emb_CAB39931.1_ (AL049500)
                  phospholipid hydroperoxide glutathione peroxidase
                  [Arabidopsis thaliana]
                  144589
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-D7
                  BLASTX
Method
NCBI GI
                  g3395436
BLAST score
                  323
                  8.0e-31
E value
Match length
                  78
% identity
NCBI Description
                  (AC004683) unknown protein [Arabidopsis thaliana]
                  144590
Seq. No.
                  LIB3168-046-P1-K1-D8
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
                  768
BLAST score
```

4.0e-82

```
Match length
                   145
                   99
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   144591
                   LIB3168-046-P1-K1-D9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2500193
BLAST score
                   228
                   7.0e-19
E value
Match length
                   58
                   81
% identity
                   RAC-LIKE GTP BINDING PROTEIN ARAC4 (GTP BINDING PROTEIN
NCBI Description
                   ROP2) >gi_1304417 (U45236) Description: rac-like protein;
                   GTP binding protein; Method: conceptual translation
                   supplied by author. [Arabidopsis thaliana] >gi_1777764
                   (U49972) GTP binding protein Rop2At [Arabidopsis thaliana]
Seq. No.
                   144592
                   LIB3168-046-P1-K1-E1
Seq. ID
Method
                   BLASTN
NCBI GI
                   g16472
                   88
BLAST score
E value
                   1.0e-41
                   92
Match length
                   99
% identity
NCBI Description
                   A.thaliana rRNA repeat unit, most frequent IGR type
                   144593
Seq. No.
                   LIB3168-046-P1-K1-E10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1419090
BLAST score
                   347
E value
                   1.0e-32
Match length
                   143
% identity
                   (X94968) 37kDa chloroplast inner envelope membrane
NCBI Description
                   polypeptide precursor [Nicotiana tabacum]
Seq. No.
                   144594
                   LIB3168-046-P1-K1-E12
Seq. ID
Method
                   BLASTX
NCBI GI
                   g134943
BLAST score
                   477
E value
                   5.0e-48
Match length
                   146
                   69
% identity
                   ACYL-[ACYL-CARRIER PROTEIN] DESATURASE PRECURSOR
NCBI Description
                   (STEAROYL-ACP DESATURASE) >gi_99831_pir__S23351 acyl-[acyl-carrier-protein] desaturase (EC 1.14.99.6)
                   precursor - turnip >gi_17929_emb_CAA43294_ (X60978)
                   acyl-[acyl-carrier-protein] desaturase [Brassica rapa]
```

>gi\_1279219\_emb\_CAA65990\_ (X97325) acyl-[acyl-carrier

Method

## protein] desaturase [Brassica napus]

```
Seq. No.
                  144595
Seq. ID
                  LIB3168-046-P1-K1-E2
                  BLASTX
Method
                  g1107501
NCBI GI
                  316
BLAST score
                  2.0e-29
E value
Match length
                  76
                  86
% identity
NCBI Description
                  (X91954) orf [Arabidopsis thaliana] >gi_3367530 (AC004392)
                  Match to gb_X91954 orf gene product from A. thaliana. ESTs
                  gb_Z17604, gb_H76594, gb_AA597972 and gb_AA394824 come from
                  this gene. [Arabidopsis thaliana]
Seq. No.
                  144596
                  LIB3168-046-P1-K1-E3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1946355
BLAST score
                  627
E value
                  1.0e-65
Match length
                  141
                  79
% identity
                  (U93215) maize transposon MuDR mudrA protein isolog
NCBI Description
                  [Arabidopsis thaliana] >gi_2880040 (AC002340) maize
                  transposon MuDR mudrA-like protein [Arabidopsis thaliana]
                  144597
Seq. No.
                  LIB3168-046-P1-K1-E4
Seq. ID
Method
                  BLASTN
NCBI GI
                  q1304416
BLAST score
                  118
                  5.0e-60
E value
                  170
Match length
                  93
% identity
                  Arabidopsis thaliana rac-like protein (ARAC4) mRNA,
NCBI Description
                  complete cds
Seq. No.
                  144598
                  LIB3168-046-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  709
                  3.0e-75
E value
Match length
                  133
                  99
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144599
```

LIB3168-046-P1-K1-E6

BLASTX

```
NCBI GI
                   q1628583
BLAST score
                   511
E value
                   5.0e-52
Match length
                   124
% identity
                   83
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144600
                  LIB3168-046-P1-K1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                   48
E value
                   5.0e-55
Match length
                   146
% identity
                   79
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                   144601
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-E8
Method
                  BLASTX
NCBI GI
                   a1628583
BLAST score
                   586
E value
                   9.0e-61
Match length
                  145
                  80
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144602
Seq. ID
                  LIB3168-046-P1-K1-E9
Method
                  BLASTX
NCBI GI
                  q1848214
BLAST score
                  117
E value
                   3.0e-13
Match length
                  67
% identity
NCBI Description
                   (Y11210) uracil phosphoribosyltransferase [Nicotiana
                  tabacum]
Seq. No.
                  144603
Seq. ID
                  LIB3168-046-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  779
E value
                  2.0e-83
Match length
                  147.
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
```

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  144604
                  LIB3168-046-P1-K1-F2
Seq. ID
Method
                  BLASTN
                  q2264311
NCBI GI
BLAST score
                  122
                  2.0e-62
E value
Match length
                  150
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MLN1, complete sequence [Arabidopsis thaliana]
                  144605
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-F3
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  616
                  3.0e-64
E value
Match length
                  144
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144606
                  LIB3168-046-P1-K1-F4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3769673
BLAST score
                  570
E value
                  7.0e-59
Match length
                  144
% identity
                  69
NCBI Description
                  (AF095285) Tic20 [Pisum sativum]
Seq. No.
                  144607
                                                                · .
Seq. ID
                  LIB3168-046-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  557
E value
                  2.0e-57
Match length
                  132
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144608
Seq. ID
                  LIB3168-046-P1-K1-F6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  578 ·
E value
                  9.0e-60
Match length
                  111
```

```
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144609
Seq. No.
                  LIB3168-046-P1-K1-F7
Seq. ID
                  BLASTX
Method
                  g1076316
NCBI GI
BLAST score
                  552
                  8.0e-57
E value
                  105
Match length
                  99
% identity
                  drought-induced protein Di19 - Arabidopsis thaliana
NCBI Description
                  >gi 469110 emb CAA55321 (X78584) Di19 [Arabidopsis
                  thaliana]
                  144610
Seq. No.
                  LIB3168-046-P1-K1-F9
Seq. ID
                  BLASTN
Method
                  g2264314
NCBI GI
BLAST score
                  211
                  1.0e-115
E value
                  415
Match length
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MQK4, complete sequence [Arabidopsis thaliana]
                  144611
Seq. No.
                  LIB3168-046-P1-K1-G11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1001311
BLAST score
                  155
                   3.0e-10
E value
                  81
Match length
% identity
NCBI Description
                   (D64006) hypothetical protein [Synechocystis sp.]
                  144612
Seq. No.
                  LIB3168-046-P1-K1-G12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3985958
BLAST score
                  67
E value
                  3.0e-29
Match length
                  191
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MZN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144613
                  LIB3168-046-P1-K1-G2
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2618603
BLAST score
                  217
                  1.0e-118
E value
Match length
                  378
```

97

% identity

NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MSL3, complete sequence [Arabidopsis thaliana]

Seq. No. 144614

LIB3168-046-P1-K1-G3 Seq. ID

BLASTX Method q1628583 NCBI GI 313 BLAST score E value 7.0e-29 110 Match length % identity

(U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description

> thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144615

LIB3168-046-P1-K1-G4 Seq. ID

Method **BLASTX** NCBI GI g2129657 BLAST score 267 E value 2.0e-23 Match length 85 % identity 68

NCBI Description oleosin isoform - Arabidopsis thaliana

>gi\_987014\_emb\_CAA90877\_ (Z54164) oleosin [Arabidopsis
thaliana] >gi\_987016\_emb\_CAA90878\_ (Z54165) oleosin

[Arabidopsis thaliana]

144616 Seq. No.

LIB3168-046-P1-K1-G5 Seq. ID

Method BLASTX g3914467 NCBI GI BLAST score 586 E value 9.0e-61 Match length 144

% identity

NCBI Description 26S PROTEASOME REGULATORY SUBUNIT S3 (NUCLEAR ANTIGEN 21D7)

>gi\_1864003\_dbj\_BAA19252\_ (AB001422) 21D7 [Nicotiana

tabacum]

Seq. No. 144617

Seq. ID LIB3168-046-P1-K1-G6

Method BLASTX g112681 NCBI GI BLAST score 315 3.0e-29 E value Match length 79 % identity

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144618

LIB3168-046-P1-K1-G7 Seq. ID

Method BLASTX

```
q1628583
NCBI GI
BLAST score
                  619
E value
                  1.0e-64
Match length
                  120
                  99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144619
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  a1628583
BLAST score
                  470
E value
                  3.0e-47
Match length
                  122
                  76
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144620
                  LIB3168-046-P1-K1-G9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g438450
BLAST score
                  41
E value
                  4.0e-14
                  96
Match length
                  90
% identity
                  Arabidopsis thaliana delta-12 desaturase (Fad2) mRNA,
NCBI Description
                  complete cds
Seq. No.
                  144621
                  LIB3168-046-P1-K1-H1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3152581
BLAST score
                  652
E value
                  2.0e-68
Match length
                  141
% identity
                   (AC002986) Similar to E. coli sulfurtransferase (rhodanese)
NCBI Description
                  gb_AE00338. ESTs gb_T03984, gb_T03983 and gb_W43228 come
                  from this gene. [Arabidopsis thaliana]
                  144622
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-H11
Method
                  BLASTN
NCBI GI
                  q3763944
BLAST score
                  244
E value
                  1.0e-135
Match length
                  410
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F28A23
                   (ESSAII project)
                  144623
Seq. No.
```

LIB3168-046-P1-K1-H12



```
Method
                  BLASTX
NCBI GI
                  q2605714
BLAST score
                  489
E value
                  2.0e-49
Match length
                  115
% identity
                   (AF026275) beta-tonoplast intrinsic protein [Arabidopsis
NCBI Description
                  144624
Seq. No.
Seq. ID
                  LIB3168-046-P1-K1-H2
                  BLASTN
Method
                  q2924257
NCBI GI
BLAST score
                  52
E value
                  2.0e-20
                  142
Match length
                  92
% identity
                  Tobacco chloroplast genome DNA
NCBI Description
                  144625
Seq. No.
                  LIB3168-046-P1-K1-H3
Seq. ID
Method
                  BLASTN
                  g2864607
NCBI GI
BLAST score
                  393
E value
                  0.0e + 00
Match length
                  432
% identity
                  100
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F10M6
NCBI Description
                  (ESSAII project)
Seq. No.
                  144626
                  LIB3168-046-P1-K1-H4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  532
E value
                  1.0e-54
Match length
                  116
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsīs thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144627
                  LIB3168-046-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129659
BLAST score
                  458
                  9.0e-46
E value
                  137
Match length
% identity
NCBI Description
                  oleosin, isoform 21K - Arabidopsis thaliana >gi_725260
                   (L40954) oleosin [Arabidopsis thaliana]
                  144628
Seq. No.
```

252

LIB3168-046-P1-K1-H8

```
Method
                    BLASTX
NCBI GI
                    q1352463
BLAST score
                    445
                    3.0e-44
E value
Match length
                    118
                    76
% identity
                   MYO-INOSITOL-1-PHOSPHATE SYNTHASE (IPS) >gi 1161312
NCBI Description
                    (U04876) myo-inositol-1-phosphate synthase [Arabidopsis
                    thaliana]
                    144629
Seq. No.
                    LIB3168-047-P1-K1-A1
Seq. ID
                    BLASTX
Method
NCBI GI
                    q113595
BLAST score
                    406
E value
                    1.0e-39
                    129
Match length
% identity
                    59
NCBI Description
                   ALDOSE REDUCTASE (AR) (ALDEHYDE REDUCTASE)
                   >gi_100562_pir__S15024 aldose reductase-related protein -
barley >gi_18891_emb_CAA40747_ (X57526) aldose
                    reductase-related protein [Hordeum vulgare]
Seq. No.
                    144630
Seq. ID
                    LIB3168-047-P1-K1-A10
Method
                    BLASTX
NCBI GI
                    q112739
BLAST score
                    373
E value
                    7.0e-36
Match length
                    112
% identity
                    69
                    2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                    PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                    (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                    >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                    precursor [Arabidopsis thaliana]
Seq. No.
                    144631
Seq. ID
                    LIB3168-047-P1-K1-A11
Method
                   BLASTX
NCBI GI
                    g1628583
BLAST score
                    526
E value
                    9.0e-54
Match length
                    134
% identity
                    78
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    144632
Seq. ID
                   LIB3168-047-P1-K1-A12
                   BLASTX
Method
NCBI GI
                    q1628583
BLAST score
                   625
E value
                    2.0e-65
```

% identity

```
120
Match length
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144633
Seq. No.
                  LIB3168-047-P1-K1-A2
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  55
E value
                  5.0e-54
Match length
                  125
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144634
Seq. No.
                  LIB3168-047-P1-K1-A3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4581109
BLAST score
                  248
                  4.0e-21
E value
Match length
                  113
                  40
% identity
                   (AC005825) unknown protein [Arabidopsis thaliana]
NCBI Description
                  144635
Seq. No.
                  LIB3168-047-P1-K1-A4
Seq. ID
Method
                  BLASTX
                  g2605714
NCBI GI
BLAST score
                  520
E value
                  5.0e-53
Match length
                  122
% identity
                   (AF026275) beta-tonoplast intrinsic protein [Arabidopsis
NCBI Description
                  thaliana]
                  144636
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  g2702274
                  331
BLAST score
                  2.0e-31
E value
                  67
Match length
% identity
NCBI Description
                   (AC003033) unknown protein [Arabidopsis thaliana]
Seq. No.
                  144637
                  LIB3168-047-P1-K1-A6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q544122
BLAST score
                  697
E value
                  8.0e-74
Match length
                  138
```

```
NCBI Description APOCYTOCHROME F PRECURSOR >gi_629599_pir__S45661
                   plastoquinol--plastocyanin reductase (EC 1.10.99.1)
                   cytochrome f precursor - turnip chloroplast >gi_441282_emb_CAA54307_ (X77011) cytochrome f [Brassica
                   rapa]
                   144638
Seq. No.
Seq. ID
                   LIB3168-047-P1-K1-A7
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   145
E value
                   7.0e-43
Match length
                   133
% identity
                   70
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144639
Seq. No.
                   LIB3168-047-P1-K1-A8
Seq. ID
Method
                   BLASTN
NCBI GI
                   q511598
BLAST score
                   395
E value
                   0.0e + 00
Match length
                   419
% identity
                   Arabidopsis thaliana cell wall protein (APTR-1) gene,
NCBI Description
                   complete cds
                   144640
Seq. No.
Seq. ID
                   LIB3168-047-P1-K1-A9
Method
                   BLASTX
NCBI GI
                   q112737
BLAST score
                   540
E value
                   2.0e-55
Match length
                   132
                   80
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   144641
Seq. ID
                   LIB3168-047-P1-K1-B1
Method
                   BLASTN
NCBI GI
                   q4455168
BLAST score
                   386
E value
                   0.0e + 00
Match length
                   421
% identity
                   98
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F10M10
```

(ESSAII project)

BLAST score

```
Seq. No.
                  144642
                  LIB3168-047-P1-K1-B10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2506276
BLAST score
                  583
E value
                  2.0e-60
Match length
                  120
% identity
                  98
                  RUBISCO SUBUNIT BINDING-PROTEIN ALPHA SUBUNIT PRECURSOR (60
NCBI Description
                  KD CHAPERONIN ALPHA SUBUNIT) (CPN-60 ALPHA)
                  >gi 2129561 pir S71235 chaperonin-60 alpha chain -
                  Arabidopsis thaliana >gi 1223910 (U49357) chaperonin-60
                  alpha subunit [Arabidopsis thaliana]
                  >gi 4510416 gb AAD21502.1 (AC006929) putative rubisco
                  binding protein alpha subunit [Arabidopsis thaliana]
                  144643
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-B11
Method
                  BLASTX
NCBI GI
                  q2982454
BLAST score
                  298
E value
                  5.0e-34
Match length
                  136
                  57
% identity
NCBI Description
                  (AL022223) fructose-bisphosphate aldolase [Arabidopsis
                  thaliana]
Seq. No.
                  144644
Seq. ID
                  LIB3168-047-P1-K1-B12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144645
                  LIB3168-047-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  625
BLAST score
E value
                  2.0e-65
Match length
                  120
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144646
                  LIB3168-047-P1-K1-B4
Seq. ID
                  BLASTX
Method
                  q112743
NCBI GI
```

```
E value
                   2.0e-73
Match length
                   130
% identity
                   98
                   2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                   Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                   4 precursor [Arabidopsis thaliana] >gi 395202 emb CAA80869
                   (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                   >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4 precursor [Arabidopsis thaliana]
                   144647
Seq. No.
                   LIB3168-047-P1-K1-B5
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   225
E value
                   1.0e-18
Match length
                   58
% identity
                   79
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144648
Seq. ID
                   LIB3168-047-P1-K1-B6
Method
                   BLASTN
NCBI GI
                   q2688838
BLAST score
                   150
E value
                   1.0e-78
Match length
                   282
% identity
                   88
NCBI Description
                   Thlaspi goesingense ATP phosphoribosyltransferase (THG1)
                   mRNA, complete cds
Seq. No.
                   144649
Seq. ID
                   LIB3168-047-P1-K1-B7
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   619
E value
                   1.0e-64
Match length
                   120
                   99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144650
                   LIB3168-047-P1-K1-B8
Seq. ID
Method
                   BLASTX
NCBI GI
                   a2129659
BLAST score
                   181
E value
                   3.0e-22
                   95
Match length
% identity
                   oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
```

(L40954) oleosin [Arabidopsis thaliana]

E value

2.0e-61

```
Seq. No.
                  144651
                  LIB3168-047-P1-K1-B9
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112682
                  679
BLAST score
                  1.0e-71
E value
                  141
Match length
                  92
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144652
Seq. No.
                  LIB3168-047-P1-K1-C1
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
                  614
BLAST score
                  4.0e-64
E value
                  120
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144653
                  LIB3168-047-P1-K1-C10
Seq. ID
Method
                  BLASTN
                  g2264312
NCBI GI
                  394
BLAST score
                  0.0e+00
E value
                  410
Match length
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MOK16, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144654
                  LIB3168-047-P1-K1-C11
Seq. ID
Method
                  BLASTX
                  g267070
NCBI GI
BLAST score
                  478
                  2.0e-48
E value
                  91
Match length
                  98
% identity
                  TUBULIN ALPHA-6 CHAIN >gi_282852_pir__JQ1597 tubulin
NCBI Description
                  alpha-6 chain - Arabidopsis thaliana >gi_166920 (M84699)
                  TUA6 [Arabidopsis thaliana] >gi_2244853_emb_CAB10275_
                  (Z97337) tubulin alpha-6 chain (TUA6) [Arabidopsis
                  thaliana]
                  144655
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-C12
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  591
```

Seq. No.

```
137
Match length
                   82
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   tha\overline{\text{liana}} >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   144656
                   LIB3168-047-P1-K1-C2
Seq. ID
                   BLASTX
Method
NCBI GI
                   q1628583
BLAST score
                   251
E value
                   5.0e-39
                   113
Match length
                   78
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144657
Seq. ID
                   LIB3168-047-P1-K1-C3
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   578
                   7.0e-60
E value
Match length
                   138
% identity
                   80
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   144658
Seq. ID
                   LIB3168-047-P1-K1-C4
Method
                   BLASTX
NCBI GI
                   q3695390
BLAST score
                   267
E value
                   2.0e-23
                   77
Match length
% identity
NCBI Description
                   (AF096371) contains similarity to Rattus norvegicus cyclin
                   G-associated kinase (SW:P97874) [Arabidopsis thaliana]
Seq. No.
                   144659
Seq. ID
                   LIB3168-047-P1-K1-C6
Method
                   BLASTN
NCBI GI
                   g3702722
BLAST score
                   61
E value
                   6.0e-26
Match length
                   109
% identity
                   90
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K12B20, complete sequence [Arabidopsis thaliana]
```

```
LIB3168-047-P1-K1-C7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4115365
BLAST score
                  330
                  9.0e-31
E value
Match length
                  123
% identity
NCBI Description
                   (AC005957) reverse transcriptase-like protein [Arabidopsis
                  thaliana]
Seq. No.
                  144661
                  LIB3168-047-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4454033
BLAST score
                  253
                  9.0e-22
E value
                  139
Match length
% identity
NCBI Description
                   (AL035394) putative potassium transport protein
                   [Arabidopsis thaliana]
                  144662
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-D10
Method
                  BLASTX
                  g464987
NCBI GI
BLAST score
                  471
E value
                  2.0e-47
Match length
                  107
% identity
                  86
                  UBIQUITIN-CONJUGATING ENZYME E2-17 KD 10 (UBIQUITIN-PROTEIN
NCBI Description
                  LIGASE 10) (UBIQUITIN CARRIER PROTEIN 10)
                  >gi_421858_pir__S32672 ubiquitin--protein ligase (EC
                  6.3.2.19) UBC10 - Arabidopsis thaliana
                  >gi_297878_emb_CAA78715_ (Z14991) ubiquitin conjugating
                  enzyme [Arabidopsis thaliana] >gi_349213 (L00640) ubiquitin
                  conjugating enzyme [Arabidopsis thaliana]
Seq. No.
                  144663
Seq. ID
                  LIB3168-047-P1-K1-D11.
Method
                  BLASTX
NCBI GI
                  g3135274
BLAST score
                  202
                  6.0e-16
E value
                  80
Match length
% identity
                  53
                   (AC003058) putative beta-1,3-endoglucanase [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  144664
                  LIB3168-047-P1-K1-D12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1072480
BLAST score
                  68
                  2.0e-46
E value
Match length
                  119
% identity
NCBI Description
                  cruciferin 1 precursor - rape
```

```
144665
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-D2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144666
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-D3
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  523
                  2.0e-53
E value
Match length
                  133
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144667
                  LIB3168-047-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  560
E value
                  9.0e-58
Match length
                  133
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144668
                  LIB3168-047-P1-K1-D5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3885325
BLAST score
                  129
E value
                  4.0e-66
Match length
                  177
% identity
                  95
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T20P8 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144669
Seq. ID
                  LIB3168-047-P1-K1-D6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  107
                  5.0e-20
E value
Match length
                  55
```

```
% identity
                   79
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144670
 Seq. No.
                   LIB3168-047-P1-K1-D7
 Seq. ID
                   BLASTX
 Method
                   g1041704
 NCBI GI
 BLAST score
                   323
                   6.0e-30
 E value
                   93
Match length
                   68
 % identity
                   (U30478) expansin At-EXP5 [Arabidopsis thaliana]
 NCBI Description
                   144671
 Seq. No.
                   LIB3168-047-P1-K1-D8
 Seq. ID
 Method
                   BLASTX
                   g2924779
 NCBI GI
                   607
 BLAST score
                   3.0e-63
 E value
Match length
                   121
                   99
 % identity
                    (AC002334) putative 3-ketoacyl-CoA thiolase [Arabidopsis
 NCBI Description
                   thaliana] >gi_2981616_dbj_BAA25248_ (AB008854)
                   3-ketoacyl-CoA thiolase [Arabidopsis thaliana]
                   >gi 2981618 dbj BAA25249_ (AB008855) 3-ketoacyl-CoA
                   thiolase [Arabidopsis thaliana]
                   144672
 Seq. No.
                   LIB3168-047-P1-K1-D9
Seq. ID
                   BLASTX
Method
                   g1791352
 NCBI GI
                   170
 BLAST score
                   5.0e-12
 E value
                   91
Match length
                   42
 % identity
 NCBI Description
                   (U83789) O-diphenol-O-methyltransferase [Capsicum annuum]
 Seq. No.
                   144673
                   LIB3168-047-P1-K1-E1
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   q82734
 BLAST score
                   596
                   6.0e-62
 E value
                   121
Match length
                   30
 % identity
                   ubiquitin precursor - maize (fragment)
NCBI Description
                   >gi_226763_prf__1604470A poly-ubiquitin [Zea mays]
 Seq. No.
                   144674
                   LIB3168-047-P1-K1-E12
 Seq. ID
                   BLASTX
Method
NCBI GI
                   g112741
 BLAST score
                   415
                   9.0e-58
E value
```

128

Match length

```
% identity
                       2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
   NCBI Description
                       PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                       Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                       (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                       >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
precursor [Arabidopsis thaliana]
   Seq. No.
                       144675
   Seq. ID
                       LIB3168-047-P1-K1-E2
   Method
                       BLASTX
   NCBI GI
                       a1628583
   BLAST score
                       543
   E value
                       9.0e-56
   Match length
                       139
                       77
   % identity
NCBI Description
                       (U66916) 12S cruciferin seed storage protein [Arabidopsis
                       thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                       cruciferin seed storage protein [Arabidopsis thaliana]
   Seq. No.
                       144676
   Seq. ID
                       LIB3168-047-P1-K1-E4
   Method
                       BLASTX
   NCBI GI
                       q1628583
   BLAST score
                       447
   E value
                       2.0e-44
   Match length
                       127
   % identity
                       72
   NCBI Description
                       (U66916) 12S cruciferin seed storage protein [Arabidopsis
                       thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                       cruciferin seed storage protein [Arabidopsis thaliana]
   Seq. No.
                       144677
   Seq. ID
                       LIB3168-047-P1-K1-E5
   Method
                       BLASTX
   NCBI GI
                       q3738324
   BLAST score
                       506
   E value
                       2.0e-51
   Match length
                       111
   % identity
                       82
   NCBI Description
                       (AC005170) GMP synthase-like protein [Arabidopsis thaliana]
   Seq. No.
                       144678
   Seq. ID
                       LIB3168-047-P1-K1-E6
   Method
                       BLASTX
   NCBI GI
                       q112741
   BLAST score
                       475
   E value
                       2.0e-48
   Match length .
                       98
                       90
   % identity
   NCBI Description
                       2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                       PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                       Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                       (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
```

>gi 4490712\_emb\_CAB38846.1 (AL035680) NWMU3-2S albumin 3

Method

NCBI GI

BLASTX

q2970654

## precursor [Arabidopsis thaliana]

```
Seq. No.
                  144679
Seq. ID
                  LIB3168-047-P1-K1-E7
Method
                  BLASTX
NCBI GI
                  g1628583
                  681
BLAST score
                  6.0e-72
E value
Match length
                  133
                  97
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144680
                  LIB3168-047-P1-K1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204299
                  117
BLAST score
E value
                  4.0e-62
Match length
                  125
% identity
NCBI Description
                   (AC003027) lcl_prt_seq No definition line found
                   [Arabidopsis thaliana]
                  144681
Seq. No.
                  LIB3168-047-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  480
E value
                  2.0e-48
Match length
                  132
                  73
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144682
Seq. ID
                  LIB3168-047-P1-K1-F1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  199
E value
                  1.0e-15
Match length
                  41
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144683
Seq. ID
                  LIB3168-047-P1-K1-F10
```

```
BLAST score
                  278
E value
                  1.0e-24
Match length
                  107
% identity
                  57
                  (AF052058) ferritin subunit cowpea2 precursor [Vigna
NCBI Description
                  unguiculata]
Seq. No.
                  144684
Seq. ID
                  LIB3168-047-P1-K1-F12
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  631
E value
                  4.0e-66
Match length
                  135
% identity
                  88
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144685
                  LIB3168-047-P1-K1-F2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  676
E value
                  2.0e-71
Match length
                  140
% identity
                  92
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144686
Seq. ID
                  LIB3168-047-P1-K1-F4
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  532
E value
                  2.0e-54
Match length
                  127
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144687
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  663
E value
                  8.0e-70
```

```
Match length
                  139
                  91
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144688
Seq. No.
                  LIB3168-047-P1-K1-F6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112739
BLAST score
                  402
                  3.0e-39
E value
                  116
Match length
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144689
                  LIB3168-047-P1-K1-F7
Seq. ID
                  BLASTN
Method
                  q3985955
NCBI GI
BLAST score
                  338
E value
                  0.0e + 00
Match length
                  417
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MTH16, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144690
                  LIB3168-047-P1-K1-F8
Seq. ID
                  BLASTX
Method
NCBI GI
                  q82734
BLAST score
                  617
E value
                  2.0e-64
                  124
Match length
                  30
% identity
                  ubiquitin precursor - maize (fragment)
NCBI Description
                  >gi 226763_prf__1604470A poly-ubiquitin [Zea mays]
                  144691
Seq. No.
                  LIB3168-047-P1-K1-F9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  552
                  8.0e-57
E value
                  139
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

144692

Seq. No.

% identity

```
Seq. ID
                    LIB3168-047-P1-K1-G1
 Method
                    BLASTX
 NCBI GI
                    g112681
 BLAST score
                    603
 E value
                    9.0e-63
 Match length
                   138
 % identity
                   85
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__s08509
 NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
 Seq. No.
                   144693
 Seq. ID
                   LIB3168-047-P1-K1-G10
 Method
                   BLASTN
 NCBI GI
                   g395203
 BLAST score
                   184
 E value
                   2.0e-99
 Match length
                   184
 % identity
                   59
NCBI Description
                  A.thaliana 2S albumin gene isoforms 1 and 2, complete CDS's
Seq. No.
                   144694
Seq. ID
                   LIB3168-047-P1-K1-G12
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   609
E value
                   2.0e-63
Match length
                   140
% identity
                   84
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir_ S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144695
Seq. ID
                  LIB3168-047-P1-K1-G2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  556
E value
                  3.0e-57
Match length
                  112
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144696
Seq. ID
                  LIB3168-047-P1-K1-G4
Method
                  BLASTX
NCBI GI
                  g224293
BLAST score
                  386
E value
                  2.0e-37
Match length
                  78
```

Method

BLASTX

```
histone H4 [Triticum aestivum]
NCBI Description
                  144697
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-G5
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  168
                  6.0e-12
E value
                  39
Match length
                  82
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144698
Seq. ID
                  LIB3168-047-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144699
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-G9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144700
Seq. ID
                  LIB3168-047-P1-K1-H10
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  603
                  8.0e-63
E value
Match length
                  138
% identity
                  85
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144701
                  LIB3168-047-P1-K1-H11
Seq. ID
```

```
NCBI GI
                  q1628583
BLAST score
                  661
E value
                  1.0e-69
                  128
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144702
                  LIB3168-047-P1-K1-H12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  542
E value
                  1.0e-55
Match length
                  138
                  77
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144703
Seq. ID
                  LIB3168-047-P1-K1-H2
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  588
E value
                  4.0e-61
Match length
                  127
% identity
                  89
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144704
Seq. ID
                  LIB3168-047-P1-K1-H3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  636
E value
                  1.0e-66
                  127
Match length
                  96
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144705
Seq. No.
Seq. ID
                  LIB3168-047-P1-K1-H4
Method
                  BLASTN
NCBI GI
                  q3869062°
BLAST score
                  42
E value
                  3.0e-14
                  115
Match length
                  90
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
                  K11I1, complete sequence [Arabidopsis thaliana]
```

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Method

BLASTX

```
144706
Seq. No.
                  LIB3168-047-P1-K1-H6
Seq. ID
                   BLASTX
Method
                   g112682
NCBI GI
                   615
BLAST score
                   3.0e-64
E value
                   141
Match length
                   82
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   tha\overline{liana} >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144707
Seq. No.
                   LIB3168-047-P1-K1-H8
Seq. ID
Method
                   BLASTX
                   q112739
NCBI GI
                   425
BLAST score
                   6.0e-42
E value
                   121
Match length
                   71
% identity
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor - Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                   2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi 4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
                   144708
Seq. No.
                   LIB3168-047-P1-K1-H9
Seq. ID
Method
                   BLASTX
                   g1169476
NCBI GI
                   625
BLAST score
                   2.0e-65
E value
                   121
Match length
% identity
                   98
                   ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
NCBI Description
                   ADHESION PROTEIN 1) (PVN1) >gi_439577 (U04632)
                   vitronectin-like adhesion protein [Nicotiana tabacum]
                   144709
Seq. No.
                   LIB3168-048-P1-K1-A1
Seq. ID
                   BLASTN
Method
                   g4006885
NCBI GI
                   322
BLAST score
                   0.0e+00
E value
                   371
Match length
                    99
% identity
                   Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
NCBI Description
                    fragment No
                    144710
Seq. No.
                   LIB3168-048-P1-K1-A11
```

```
NCBI GI
                   g4581146
 BLAST score
                   498
 E value
                   2.0e-50
                   119
 Match length
 % identity
                   87
                   (AC006919) putative fructose-bisphosphate aldolase,
 NCBI Description
                   cytoplasmic [Arabidopsis thaliana]
                   144711
 Seq. No.
                   LIB3168-048-P1-K1-A12
 Seq. ID
                   BLASTX
 Method
 NCBI GI
                   q112681
                   533
 BLAST score
                   1.0e-54
 E value
 Match length
                   127
                   82
 % identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
 NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
 Seq. No.
                   144712
                   LIB3168-048-P1-K1-A2
 Seq. ID
                   BLASTX
 Method
 NCBI GI
                   q1628583
 BLAST score
                   656
                   5.0e-69
 E value
 Match length
                   131
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
 Seq. No.
                   144713
                   LIB3168-048-P1-K1-A3
 Seq. ID
 Method
                   BLASTN
 NCBI GI
                   g4079614
 BLAST score
                   304
 E value
                   1.0e-171
 Match length
                   314
 % identity
                   Arabidopsis thaliana chromosome I BAC F21M11 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                   144714
                   LIB3168-048-P1-K1-A4
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g112741
 BLAST score
                   620
 E value
                   7.0e-65
 Match length
                   118
                   97
 % identity
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
 NCBI Description
                   PROTEIN) >gi_68855_pir_NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
```

3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

E value

7.0e-32

```
precursor [Arabidopsis thaliana]
                  144715
Seq. No.
Seq. ID
                  LIB3168-048-P1-K1-A5
                  BLASTN
Method
NCBI GI
                  q2160132
                  108 -
BLAST score
                  6.0e-54
E value
                  191
Match length
                  93
% identity
                  Sequence of BAC F19K23 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
                  144716
Seq. No.
Seq. ID
                  LIB3168-048-P1-K1-A6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  556
                  3.0e-57
E value
                  138
Match length
                  79
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144717
Seq. No.
                  LIB3168-048-P1-K1-A7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  309
                  8.0e-29
E value
                  65
Match length
                  92
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144718
Seq. No.
Seq. ID
                  LIB3168-048-P1-K1-B1
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  665
                  4.0e-70
E value
Match length
                  128
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144719
                  LIB3168-048-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g131336
BLAST score
                  339
```

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3

BLAST score

```
Match length
                  73
% identity
                  93
                  PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >gi_72715_pir__F2NT0P
NCBI Description
                  photosystem II phosphoprotein psbH - common tobacco
                  chloroplast >gi_11857_emb_CAA77374_ (Z00044) PSII 10kD
                  phosphoprotein [Nicotiana tabacum]
                  >gi_225225_prf__1211235BG photosystem II 10kD
                  phosphoprotein [Nicotiana tabacum]
                  144720
Seq. No.
Seq. ID
                  LIB3168-048-P1-K1-B2
Method
                  BLASTN
NCBI GI
                  q3510341
BLAST score
                  42
                  3.0e-14
E value
                  213
Match length
% identity.
                  83
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MFC16, complete sequence [Arabidopsis thaliana]
                  144721
Seq. No.
                  LIB3168-048-P1-K1-B4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1419090
BLAST score
                  316
                  4.0e-29
E value
                  136
Match length
% identity
                  (X94968) 37kDa chloroplast inner envelope membrane
NCBI Description
                  polypeptide precursor [Nicotiana tabacum]
                  144722
Seq. No.
                  LIB3168-048-P1-K1-B6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4651202
BLAST score
                  294
                  1.0e-26
E value
                  138
Match length
                  43
% identity
                  (AB026253) copper amine oxidase [Pisum sativum]
NCBI Description
Seq. No.
                  144723
                  LIB3168-048-P1-K1-B8
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4406805
BLAST score
                  386
                  0.0e + 00
E value
Match length
                  406
                  99
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T27K22 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144724
                  LIB3168-048-P1-K1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
```

BLAST score

```
6.0e-69
E value
Match length
                  130
% identity
                  100
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >qi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  144725
Seq. No.
                  LIB3168-048-P1-K1-C12
Seq. ID
Method
                  BLASTX
                  g3023848
NCBI GI
BLAST score
                  552
                  7.0e-57
E value
Match length
                  109
% identity
                  29
                  GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE
NCBI Description
                  PROTEIN (WD-40 REPEAT AUXIN-DEPENDENT PROTEIN ARCA)
                  >qi 2289095 (U77381) WD-40 repeat protein [Arabidopsis
                  thaliana]
Seq. No.
                  144726
Seq. ID
                  LIB3168-048-P1-K1-C2
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  596
                  5.0e-62
E value
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144727
Seq. No.
                  LIB3168-048-P1-K1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  705
                  9.0e-75
E value
Match length
                  131
% identity
                  100
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  144728
Seq. No.
Seq. ID
                  LIB3168-048-P1-K1-C8
Method
                  BLASTX
                  q1628583
NCBI GI
```

```
E value
                  2.0e-53
Match length
                  137
                  77
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144729
Seq. No.
                  LIB3168-048-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  584
                  1.0e-60
E value
Match length
                  115
                  97
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144730
Sea. No.
                  LIB3168-048-P1-K1-D1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g585922
BLAST score
                  582
                  2.0e-60
E value
Match length
                  139
                  80
% identity
                  DNA-DIRECTED RNA POLYMERASE BETA" CHAIN
NCBI Description
Sea. No.
                  144731
                  LIB3168-048-P1-K1-D2
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112741
BLAST score
                  691
E value
                  4.0e-73
Match length
                  128
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI - Description
                  PROTEIN) >qi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >qi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >qi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144732
Seq. ID
                  LIB3168-048-P1-K1-D3
Method
                  BLASTN
NCBI GI
                  g2244991
BLAST score
                  400
E value
                  0.0e + 00
Match length
                  416
                  99
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
                  fragment No
                  144733
Seq. No.
```

```
LIB3168-048-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  405
                  1.0e-39
E value
Match length
                  111
                  72
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  144734
Seq. No.
Seq. ID
                  LIB3168-048-P1-K1-D6
                  BLASTX
Method
NCBI GI
                  q3881856
BLAST score
                  65
E value
                  6.0e-26
Match length
                  95
% identity
                  (279759) Similarity to Yeast endosomal P24A protein
NCBI Description
                  (SW:EM70 YEAST); cDNA EST CEMSB40F comes from this gene;
                  cDNA EST EMBL:C13538 comes from this gene; cDNA EST
                  yk385b5.5 comes from this gene [Caenorhabditis elegans]
Seq. No.
                  144735
                  LIB3168-048-P1-K1-D7
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3426033
BLAST score
                  134
E value
                  3.0e-69
Match length
                  198
% identity
                  Arabidopsis thaliana chromosome II BAC F12C20 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144736
Seq. ID
                  LIB3168-048-P1-K1-D8
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  91
E value
                  5.0e-60
Match length
                  126
                  98
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144737
Seq. No.
                  LIB3168-048-P1-K1-D9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4204299
```

~

```
BLAST score
                  723
                  7.0e-77
E value
Match length
                  136
                  100
% identity
NCBI Description
                   (AC003027) lcl prt seq No definition line found
                   [Arabidopsis thaliana]
                  144738
Seq. No.
                  LIB3168-048-P1-K1-E10
Seq. ID
                  BLASTN
Method
                  g3859658
NCBI GI
BLAST score
                  212
                  1.0e-116
E value
                  361
Match length
                  96
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T16L1
NCBI Description
                  (ESSAII project)
                  144739
Seq. No.
                  LIB3168-048-P1-K1-E11
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  574
                  2.0e-59
E value
                  134
Match length
% identity
                  81.
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144740
                  LIB3168-048-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  653
                  1.0e-68
E value
Match length
                  127
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144741
                  LIB3168-048-P1-K1-E2
Seq. ID
                  BLASTX
Method
                  g1531762
NCBI GI
                  195
BLAST score
E value
                  6.0e-15
                  51
Match length
% identity
                   (Y07765) S-adenosylmethionine decarboxylase [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  144742
                  LIB3168-048-P1-K1-E5
```

```
BLASTX
Method
NCBI GI
                  g112737
                  347
BLAST score
                  6.0e-33
E value
Match length
                  66
                  98
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir_NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  144743
Seq. No.
                  LIB3168-048-P1-K1-E6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  364
                  9.0e-35
E value
                  121
Match length
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  144744
Seq. No.
                  LIB3168-048-P1-K1-E7
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4217996
BLAST score
                  85
                  4.0e-40
E value
                  213
Match length
% identity
                  Arabidopsis thaliana chromosome II BAC F24H14 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144745
                  LIB3168-048-P1-K1-E8
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
                  511
BLAST score
                  4.0e-52
E value
                  113
Match length
                  86
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144746
Seq. No.
```

LIB3168-048-P1-K1-E9

NCBI GI

```
Method
                  BLASTX
NCBI GI
                  g2194142
                  431
BLAST score
                  1.0e-42
E value
Match length
                  87
                  99
% identity
                   (AC002062) ESTs gb_N38288,gb_T43486,gb_AA395242 come from
NCBI Description
                  this gene. [Arabidopsis thaliana]
                  144747
Seq. No.
                  LIB3168-048-P1-K1-F1
Seq. ID
                  BLASTN
Method
                  g3608126
NCBI GI
BLAST score
                   371
                  0.0e + 00
E value
                   404
Match length
                   98
% identity
                  Arabidopsis thaliana chromosome II BAC T32F12 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  144748
Seq. No.
                  LIB3168-048-P1-K1-F12
Seq. ID
Method
                  BLASTN
                  g4159709
NCBI GI
                   32
BLAST score
                   1.0e-08
E value
                   47
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MLN21, complete sequence
                   144749
Seq. No.
                  LIB3168-048-P1-K1-F5
Seq. ID
                   BLASTX
Method
                   g1628583
NCBI GI
                   406
BLAST score
                   1.0e-39
E value
Match length
                   146
% identity
                   68
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144750
Seq. No.
                   LIB3168-048-P1-K1-G1
Seq. ID
                   BLASTX
Method
                   g3281868
NCBI GI
                   724
BLAST score
                   5.0e-77
E value
                   138
Match length
                   99
% identity
                   (AL031004) putative protein [Arabidopsis thaliana]
NCBI Description
                   144751
Seq. No.
                  LIB3168-048-P1-K1-G10
Seq. ID
Method
                   BLASTX
                   g1628583
```

```
BLAST score
                   625
                   2.0e-65
E value
Match length
                   120
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144752
Seq. No.
                   LIB3168-048-P1-K1-G12
Seq. ID
                   BLASTN
Method
                   g2264304
NCBI GI
                   74
BLAST score
                   2.0e-33
E value
                   438
Match length
% identity
                   76
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   MBG8, complete sequence [Arabidopsis thaliana]
Seq. No.
                   144753
                   LIB3168-048-P1-K1-G2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1169515
BLAST score
                   609
E value
                   2.0e-63
Match length
                   116
                   98
% identity
NCBI Description
                   EM-LIKE PROTEIN GEA1 >gi 2119768_pir__S34819 embryonic
                   abundant protein Em1 - Arabidopsis thaliana
                   >gi 298070 emb CAA77509 (Z11158) Em protein [Arabidopsis
thaliana] >gi 298072 emb CAA77979 (Z11921) Em protein
                   homologue [Arabidopsis thaliana] >gi_3068708 (AF049236) Em1
                   protein [Arabidopsis thaliana]
Seq. No.
                   144754
                   LIB3168-048-P1-K1-G4
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4662640
BLAST score
                   194
E value
                   1.0e-105
Match length
                   340
% identity
                   Arabidopsis thaliana chromosome II BAC F15K19 genomic
NCBI Description
                   sequence, complete sequence
                   144755
Seq. No.
                   LIB3168-048-P1-K1-G5
Seq. ID
                   BLASTX
Method
                   g112741
NCBI GI
BLAST score
                   60
                   3.0e - 30
E value
Match length
                   75
% identity
                   93
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855 pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
```

3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868\_

```
(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana]
```

 Seq. No.
 144756

 Seq. ID
 LIB3168-048-P1-K1-G6

 Method
 BLASTX

 NCBI GI
 g4512684

 BLAST score
 384

 E value
 4.0e-37

 Match length
 90

86

NCBI Description (AC006931) unknown protein [Arabidopsis thaliana]

>gi\_4559324\_gb\_AAD22986.1\_AC007087\_5 (AC007087) unknown

protein [Arabidopsis thaliana]

Seq. No. 144757

% identity

Seq. ID LIB3168-048-P1-K1-H10

Method BLASTX
NCBI GI g112682
BLAST score 564
E value 3.0e-58
Match length 132
% identity 81

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi 808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144758

Seq. ID LIB3168-048-P1-K1-H12

Method BLASTX
NCBI GI g1628583
BLAST score 644
E value 1.0e-67
Match length 137
% identity 91

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144759

Seq. ID LIB3168-048-P1-K1-H2

Method BLASTX
NCBI GI g4006897
BLAST score 371
E value 1.0e-35
Match length 76
% identity 99

NCBI Description (Z99708) globulin-like protein [Arabidopsis thaliana]

Seq. No. 144760

Seq. ID LIB3168-048-P1-K1-H3

Method BLASTX NCBI GI g112681 BLAST score 473

```
1.0e-47
E value
Match length
                   136
                   72
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir_ S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144761
Seq. No.
                   LIB3168-048-P1-K1-H5
Seq. ID
                   BLASTX
Method
                   g1619602
NCBI GI
                   187
BLAST score
                   5.0e-14
E value
Match length
                   71
                   58
% identity
                   (Y08726) MtN3 [Medicago truncatula]
NCBI Description
                   144762
Seq. No.
                   LIB3168-048-P1-K1-H6
Seq. ID
Method
                   BLASTN
                   g2454181
NCBI GI
                   51
BLAST score
                   1.0e-19
E value
                   106
Match length
                   92
% identity
                   Arabidopsis thaliana pyruvate dehydrogenase El alpha
NCBI Description
                   subunit mRNA, nuclear gene encoding plastid protein,
                   complete cds
                   144763
Seq. No.
                   LIB3168-048-P1-K1-H8
Seq. ID
                   BLASTX
Method
                   g267073
NCBI GI
                   282
BLAST score
                   5.0e-43
E value
Match length
                   92
                   97
% identity
                   TUBULIN BETA-2/BETA-3 CHAIN >gi_320184_pir__
                                                                   JQ1587 tubulin
NCBI Description
                   beta chain - Arabidopsis thaliana >gi_166898 (M84700)
beta-2 tubulin [Arabidopsis thaliana] >gi_166900 (M84701)
                   beta-3 tubulin [Arabidopsis thaliana]
                   144764
Seq. No.
                   LIB3168-048-P1-K1-H9
Seq. ID
                   BLASTX
Method
NCBI GI
                    g1628583
                    542
BLAST score
E value
                    1.0e-55
                    137
Match length
                    79
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
```

144765

Seq. No.

```
LIB3168-050-P1-K1-A10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144766
Seq. No.
                  LIB3168-050-P1-K1-A11
Seq. ID
                  BLASTN
Method
NCBI GI
                  q16231
                  49
BLAST score
E value
                  1.0e-18
                  105
Match length
                  90
% identity
NCBI Description
                  Arabidopsis CRA1 gene for 12S seed storage protein
                  >gi_166675_gb_M37247_ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  144767
Seq. No.
Seq. ID
                  LIB3168-050-P1-K1-A12
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  317
E value
                  2.0e-52
Match length
                  140
                  89
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144768
Seq. No.
Seq. ID
                  LIB3168-050-P1-K1-A3
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  683
E value
                  4.0e-72
                  137
Match length
% identity
                  95
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144769
                  LIB3168-050-P1-K1-A5
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  353
E value
                  6.0e - 34
                  70
Match length
                  97
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
```

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed
storage protein [Arabidopsis thaliana]

 Seq. No.
 144770

 Seq. ID
 LIB3168-050-P1-K1-A6

 Method
 BLASTX

 NCBI GI
 g112682

 FOLLOW
 501

BLAST score 591 E value 2.0e-61 Match length 137 % identity 82

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144771

Seq. ID LIB3168-050-P1-K1-A7

Method BLASTX
NCBI GI g112682
BLAST score 583
E value 2.0e-60
Match length 123
% identity 89

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144772

Seq. ID LIB3168-050-P1-K1-A8

Method BLASTX
NCBI GI g112741
BLAST score 702
E value 2.0e-74
Match length 132
% identity 98

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 144773

Seg. ID LIB3168-050-P1-K1-A9

Method BLASTX
NCBI GI g1628583
BLAST score 611
E value 1.0e-63
Match length 129
% identity 92

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]
```

```
144774 -
Seq. No.
                   LIB3168-050-P1-K1-B1
Seq. ID
                   BLASTX
Method
                   g112741
NCBI GI
BLAST score
                   725
                   4.0e-77
E value 、
Match length
                   135
                   100
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   144775
Seq. ID
                   LIB3168-050-P1-K1-B10
Method
                   BLASTX
                   g2829918
NCBI GI
BLAST score
                   305
E value
                   8.0e-28
                   87
Match length
% identity
                   66
                   (AC002291) similar to "tub" protein gp U82468 2072162
NCBI Description
                   [Arabidopsis thaliana].
Seq. No.
                   144776
Seq. ID
                   LIB3168-050-P1-K1-B11
Method
                   BLASTN
NCBI GI
                   g2337888
BLAST score
                   336
                   0.0e + 00
E value
Match length
                   407
% identity
                   Genomic sequence for Arabidopsis thaliana BAC F14J16,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   144777
Seq. No.
Seq. ID
                   LIB3168-050-P1-K1-B12
                   BLASTX
Method
NCBI GI
                   g112682
BLAST score
                   583
E value
                   2.0e-60
Match length
                   136
                   82
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   tha\overline{1}iana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
```

144778

LIB3168-050-P1-K1-B2

Seq. No.

Seq. ID

```
Method
                  BLASTN
NCBI GI
                  g16236
BLAST score
                  44
E value
                  1.0e-15
Match length
                  147
                  91
% identity
                  Arabidopsis CRB gene for 12S seed storage protein
NCBI Description
                  >gi_166677_gb_M37248_ATHCRBAA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  144779
Seq. No.
                  LIB3168-050-P1-K1-B3
Seq. ID
Method
                  BLASTX
                  g2911067
NCBI GI
BLAST score
                  718
E value
                  3.0e-76
Match length
                  143
% identity
                  (AL021960) UV-damaged DNA-binding protein-like [Arabidopsis
NCBI Description
                  thaliana]
                  144780
Seq. No.
                  LIB3168-050-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  644
E value
                  1.0e-67
Match length
                  127
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144781
Seq. No.
Seq. ID
                  LIB3168-050-P1-K1-B5
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  283
E value
                  2.0e-46
Match length
                  128
% identity
                  78
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144782
Seq. ID
                  LIB3168-050-P1-K1-B7
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  516
```

1.0e-52

E value

```
141
Match length
                   78
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144783
Seq. No.
                   LIB3168-050-P1-K1-B8
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   587
                   5.0e-61
E value
                   116
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144784
                   LIB3168-050-P1-K1-C10
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   454
E value
                   2.0e-45
Match length
                   112
                   79
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144785
Seq. No.
Seq. ID
                   LIB3168-050-P1-K1-C11
Method
                   BLASTX
NCBI GI
                   g1118137
BLAST score
                   169
E value
                   7.0e-12
Match length
                   125
% identity
                   (U41746) coded for by C. elegans cDNA yk68a8.5
NCBI Description
                   [Caenorhabditis elegans]
                   144786
Seq. No.
                   LIB3168-050-P1-K1-C4
Seq. ID
Method
                   BLASTX
NCBI GI
                   q119143
BLAST score
                   385
E value
                   6.0e-57
Match length
                   123
                   94
% identity
                   ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
NCBI Description
                   >gi_81606_pir__S06724 translation elongation factor eEF-1
alpha chain - Arabidopsis thaliana >gi_295788_emb_CAA34453_
```

(X16430) elongation factor 1-alpha [Arabidopsis thaliana]

```
1-alpha [Arabidopsis thaliana] >gi_1369928_emb_CAA34455_ (X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                     >gi_1532172 (U63815) EF-lalpha-A1 [Arabidopsis thaliana]
>gi_1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                     >gi_1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
Seq. No.
Seq. ID
                     LIB3168-050-P1-K1-C5
Method
                     BLASTX
NCBI GI
                     q112682
BLAST score
                     583
                     1.0e-61
E value
Match length
                     133
% identity
                     89
                     12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                     cruciferin precursor (CRB) - Arabidopsis thaliana
                     >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                     storage protein [Arabidopsis thaliana]
Seq. No.
                     144788
Seq. ID
                     LIB3168-050-P1-K1-C6
Method
                     BLASTN
NCBI GI
                     q4406752
BLAST score
                     275
                     1.0e-153
E value
                     409
Match length
                     100
% identity
                     Arabidopsis thaliana chromosome II BAC F19B11 genomic
NCBI Description
                     sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                     144789
                     LIB3168-050-P1-K1-C7
Seq. ID
Method
                     BLASTX
NCBI GI
                     q82051
BLAST score
                     323
                     6.0e-30
E value
                     127
Match length
% identity
                     lipid body-associated membrane protein - carrot
NCBI Description
                     >gi_259453_bbs_117620 (S47635) lipid body membrane
                     protein=DC 59 [Daucus carota=carrots, var Juwarot, Peptide,
                     180 aa] [Daucus carota]
                     144790
Seq. No.
Seq. ID
                     LIB3168-050-P1-K1-C8
Method
                     BLASTX
NCBI GI
                     g2623962
BLAST score
                     462
E value
                     3.0e-46
Match length
                     97
% identity
                     (Y12540) isocitrate dehydrogenase (NADP+) [Apium
NCBI Description
                     graveolens]
```

>gi 1369927\_emb\_CAA34454\_ (X16431) elongation factor

144791

Seq. No.

```
Seq. ID
                  LIB3168-050-P1-K1-C9
                  BLASTX
Method
                  g140292
NCBI GI
BLAST score
                  309
                  3.0e-28
E value
                  70
Match length
% identity
                  HYPOTHETICAL 21.5 KD PROTEIN (ORF 184)
NCBI Description
                 >gi_82208_pir__A05197 hypothetical protein 184 - common
                  tobacco chloroplast >gi_11843_emb_CAA77363_ (Z00044)
                  hypothetical protein [Nicotiana tabacum]
                  >gi 225211 prf 1211235AR ORF 184 [Nicotiana tabacum]
                  144792
Seq. No.
Seq. ID
                  LIB3168-050-P1-K1-D1
Method
                  BLASTX
                  g112741
NCBI GI
BLAST score
                  709
                  3.0e-75
E value
                  132
Match length
% identity
                  100
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  144793
Seq. No.
Seq. ID
                  LIB3168-050-P1-K1-D11
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  707
                  5.0e-75
E value
                  134
Match length
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144794
Seq. ID
                  LIB3168-050-P1-K1-D12
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  534
E value
                  1.0e-54
Match length
                  134
                  78
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
```

```
144795
Seq. No.
Seq. ID
                   LIB3168-050-P1-K1-D2
                   BLASTX
Method
NCBI GI
                   g2129657
BLAST score
                   239
                   4.0e-20
E value
Match length
                   97
                   57
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
                   144796
Seq. No.
Seq. ID
                   LIB3168-050-P1-K1-D3
Method
                   BLASTX
                   g1628583
NCBI GI
BLAST score
                   588
                   1.0e-62
E value
Match length
                   138
% identity
                   91
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144797
Seq. No.
                   LIB3168-050-P1-K1-D5
Seq. ID
Method
                   BLASTN
NCBI GI
                   q1313927
BLAST score
                   45
                   4.0e-16
E value
                   181
Match length
                   83
% identity
                   B.oleracea mRNA for IFA binding protein (sp10)
NCBI Description
                   144798
Seq. No.
                   LIB3168-050-P1-K1-D6
Seq. ID
                   BLASTX
Method
NCBI GI
                   g1628583
BLAST score
                   496
                   3.0e-50
E value
                   128
Match length
                   77
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144799
Seq. No.
                   LIB3168-050-P1-K1-D7
Seq. ID
                   BLASTX
Method
                   g2129657
NCBI GI
                   352
BLAST score
                   2.0e-33
E value
Match length
                   102
                   75
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi 987014 emb CAA90877 (Z54164) oleosin [Arabidopsis
```

```
[Arabidopsis thaliana]
                  144800
Seq. No.
                  LIB3168-050-P1-K1-D8
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
                  561
BLAST score
                  7.0e-58
E value
                  139
Match length
                  79
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144801
                  LIB3168-050-P1-K1-D9
Seq. ID
Method
                  BLASTX
                  g112737
NCBI GI
                  571
BLAST score
                  5.0e-59
E value
                  137
Match length
                  81
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144802
Seq. ID
                  LIB3168-050-P1-K1-E1
                  BLASTX
Method
                  g112681
NCBI GI
                  351
BLAST score
                  1.0e-52
E value
Match length
                  142
                  74
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144803
Seq. No.
                  LIB3168-050-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  635
E value
                  1.0e-66
                 118
Match length
                  100
% identity
NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
```

thaliana] >qi 987016 emb CAA90878 (Z54165) oleosin

3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana]

144804 Seq. No.

LIB3168-050-P1-K1-E11 Seq. ID

Method BLASTX NCBI GI g2493696 BLAST score 618 1.0e-64 E value Match length 134 % identity

HYPOTHETICAL 21.5 KD PROTEIN (ORF 185) >gi 1480440 (U34204) NCBI Description ORF185; hypothetical 21.4 kD protein [Brassica oleracea]

Seq. No. 144805

LIB3168-050-P1-K1-E12 Seq. ID

Method BLASTX q112681 NCBI GI BLAST score 618 E value 1.0e-64 Match length 119 97 % identity

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis

thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144806

LIB3168-050-P1-K1-E2 Seq. ID

Method BLASTX NCBI GI g112682 BLAST score 604 7.0e-63 E value Match length 140

% identity 81

12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510 NCBI Description

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144807

LIB3168-050-P1-K1-E3 Seq. ID

Method BLASTX NCBI GI q1628583 BLAST score 584 E value 1.0e-60 Match length 123 % identity

(U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description

> thaliana] >gi 2842495 emb\_CAA16892 (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

144808 Seq. No.

...

LIB3168-050-P1-K1-E4 Seq. ID

Seq. No.

Seq. ID Method

144812

BLASTX

LIB3168-050-P1-K1-E8

```
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  565
                  2.0e-58
E value
Match length
                  112
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144809
Seq. No.
                  LIB3168-050-P1-K1-E5
Seq. ID
                  BLASTX
Method
                  q112737
NCBI GI
BLAST score
                  554
                  5.0e-57
E value
                  135
Match length
% identity
                  80
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144810
Seq. ID
                  LIB3168-050-P1-K1-E6
Method
                  BLASTX
                  g112741
NCBI GI
                  721
BLAST score
                  1.0e-76
E value
                  134
Match length
% identity
                  100
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144811
                  LIB3168-050-P1-K1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  625
BLAST score
                  2.0e-65
E value
                  120
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

NCBI GI

```
NCBI GI
                  q112682
                  51
BLAST score
                  7.0e-10
E value
Match length
                  75
                  49
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144813
                  LIB3168-050-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  a112737
BLAST score
                  171
                  5.0e-54
E value
                  137
Match length
                  79
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144814
                  LIB3168-050-P1-K1-F1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  679
E value
                  1.0e-71
Match length
                  143
                  92
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144815
                  LIB3168-050-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
                  595
BLAST score
                  7.0e-62
E value
Match length
                  138
% identity
                  82
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937 emb_CAA32494_ (X14313) 12S seed
                 storage protein [Arabidopsis thaliana]
Seq. No.
                  144816
Seq. ID
                  LIB3168-050-P1-K1-F11
Method
                  BLASTX
```

g1628583

```
386
BLAST score
                  2.0e-37
E value
                  97
Match length
                  79
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144817
Seq. No.
                  LIB3168-050-P1-K1-F12
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
                  747
BLAST score
                  1.0e-79
E value
                  142
Match length
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144818
                  LIB3168-050-P1-K1-F2
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  730
BLAST score
                  1.0e-77
E value
Match length
                  139
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144819
                  LIB3168-050-P1-K1-F3
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity .
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144820
Seq. No.
                  LIB3168-050-P1-K1-F4
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  595
                  8.0e-62
E value
                  138
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
```

:4.3

```
storage protein [Arabidopsis thaliana]
                  144821
Seq. No.
                  LIB3168-050-P1-K1-F5
Seq. ID
Method
                  BLASTX
                  g112741
NCBI GI
                  717
BLAST score
E value
                  4.0e-76
                  135
Match length
% identity
                  99
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  144822
Seq. No.
                  LIB3168-050-P1-K1-F6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  194
E value
                  7.0e-15
Match length
                  38
% identity
                  100
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144823
                  LIB3168-050-P1-K1-F7
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2264311
BLAST score-
                  314
                  1.0e-176
E value
Match length
                  343
                  97
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MLN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144824
Seq. ID
                  LIB3168-050-P1-K1-F9
Method
                  BLASTX
NCBI GI
                  g2454184
BLAST score
                  548
E value
                  2.0e-56
Match length
                  112
% identity
NCBI Description
                  (U80186) pyruvate dehydrogenase El beta subunit
                  [Arabidopsis thaliana]
```

thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

144825

LIB3168-050-P1-K1-G10

Seq. No. Seq. ID

```
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  163
E value
                  9.0e-12
                  47
Match length
                  72
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144826
                  LIB3168-050-P1-K1-G11
Seq. ID
Method
                  BLASTX
                  q1076361
NCBI GI
BLAST score
                  655
E value
                  7.0e-69
Match length
                  138
% identity
NCBI Description
                  oleoyl-[acyl-carrier-protein] hydrolase (EC 3.1.2.14) -
                  Arabidopsis thaliana >gi_2129660_pir__S69197
                  oleoyl-[acyl-carrier-protein] hydrolase (EC 3.1.2.14)
                  (clone TE 1-7) - Arabidopsis thaliana
                  >gi_804946_emb_CAA85389_ (Z36912) acyl-(acyl carrier
                  protein) thioesterase [Arabidopsis thaliana]
Seq. No.
                  144827
Seq. ID
                  LIB3168-050-P1-K1-G12
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  692
E value
                  3.0e-73
Match length
                  132
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144828
                  LIB3168-050-P1-K1-G2
Seq. ID
Method
                  BLASTX
                  q461838
NCBI GI
BLAST score
                  283
E value
                  2.0e-47
Match length
                  116
                  78
% identity
NCBI Description
                  CRUCIFERIN PGCRURSE5 PRECURSOR (11S GLOBULIN) (12S STORAGE
                  PROTEIN) >gi_282895_pir__S26223 cruciferin - radish
                  >gi_21118_emb_CAA42478_ (X59808) cruciferin [Raphanus
                  sativus]
Seq. No.
                  144829
                  LIB3168-050-P1-K1-G4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  537
```

```
· E value
                    4.0e-55
Match length
                    117
% identity
                    86
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
                    144830
Seq. No.
Seq. ID
                    LIB3168-050-P1-K1-G5
Method
                    BLASTX
NCBI GI
                    q112741
                    692
BLAST score
E value
                    3.0e-73
                    135
Match length
% identity
                    96
                    2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                    PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                    Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                    3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                    (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                    >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                    precursor [Arabidopsis thaliana]
                    144831
Seq. No.
                    LIB3168-050-P1-K1-G8
Seq. ID
Method
                    BLASTX
NCBI GI
                    q1628583
BLAST score
                    625·
E value
                    2.0e-65
Match length
                    120
                    100
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144832
                    LIB3168-050-P1-K1-H1
Seq. ID
Method
                    BLASTN
                    g4159703
NCBI GI
BLAST score
                    221
                    1.0e-121
E value
Match length
                    328
% identity
                    93
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                    K5F14, complete sequence
Seq. No.
                    144833
                    LIB3168-050-P1-K1-H10
Seq. ID
Method
                    BLASTX
NCBI GI
                    q112741
BLAST score
                    695
                    1.0e-73
E value
                    130
Match length
% identity
                    99
```

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi\_4490712\_emb\_CAB38846.1\_(AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana]

 Seq. No.
 144834

 Seq. ID
 LIB3168-050-P1-K1-H11

 Method
 BLASTX

 NCBI GI
 g112681

 BLAST score
 592

BLAST score 592 E value 2.0e-61 Match length 112 % identity 98

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 144835

Seq. ID LIB3168-050-P1-K1-H2

Method BLASTX
NCBI GI g112741
BLAST score 687
E value 1.0e-72
Match length 128

% identity 99

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 144836

Seq. ID LIB3168-050-P1-K1-H3

Method BLASTX
NCBI GI g2129657
BLAST score 366
E value 5.0e-35
Match length 104
% identity 76

NCBI Description oleosin isoform - Arabidopsis thaliana

>gi\_987014\_emb\_CAA90877\_ (Z54164) oleosin [Arabidopsis
thaliana] >gi\_987016\_emb\_CAA90878\_ (Z54165) oleosin

[Arabidopsis Thaliana]

Seq. No. 144837

Seq. ID LIB3168-050-P1-K1-H4

Method BLASTX
NCBI GI g1628583
BLAST score 530
E value 2.0e-54
Match length 100

Seq. ID

```
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144838
Seq. No.
                  LIB3168-050-P1-K1-H6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No. Seq. ID
                  144839
                  LIB3168-050-P1-K1-H9
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  705
E value
                  9.0e-75
Match length
                  131
                  100
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  144840
Seq. No.
Seq. ID
                  LIB3168-051-P1-K1-A1
Method
                  BLASTN
NCBI GI
                  q4191760
BLAST score
                  202
E value
                  1.0e-110
Match length
                  382
                  96
% identity
NCBI Description
                  Genomic sequence for Arabidopsis thaliana BAC F17F8,
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  144841
Seq. ID
                  LIB3168-051-P1-K1-A10
Method
                  BLASTN
NCBI GI
                  q3928074
BLAST score
                  391
E value
                  0.0e + 00
Match length
                  416
% identity
                  Arabidopsis thaliana chromosome II BAC T7F6 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144842
```

LIB3168-051-P1-K1-A11

```
Method
                  BLASTX
NCBI GI
                  q3335169
BLAST score
                  613
                  5.0e-64
E value
                  117
Match length
                  99
% identity
NCBI Description
                   (AF067857) embryo-specific protein 1 [Arabidopsis thaliana]
                  >gi_4455197_emb_CAB36520.1_ (AL035440) embryo-specific
                  protein 1 (ATS1) [Arabidopsis thaliana]
Seq. No.
                  144843
                  LIB3168-051-P1-K1-A12
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2645198
BLAST score
                  45
E value
                  4.0e-16
Match length
                  162
                  83
% identity
                  Arabidopsis thaliana chromosome I BAC T26J12 genomic
NCBI Description ..
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144844
Seq. ID
                  LIB3168-051-P1-K1-A2
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  245
                  6.0e-21
E value
                  52
Match length
                  98
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144845
                  LIB3168-051-P1-K1-A4
Seq. ID
Method
                  BLASTN
                  q4582411
NCBI GI
BLAST score
                  59
                  3.0e-25
E value
Match length
                  71
                  96
% identity
NCBI Description
                  Arabidopsis thaliana chromosome 1 BAC T23K8 sequence,
                  complete sequence
                  144846
Seq. No.
                  LIB3168-051-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  683
                  4.0e-72
E value
Match length
                  130
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

144847

Seq. No.

Method

BLASTX

```
LIB3168-051-P1-K1-A7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  464
E value
                  2.0e-46
                  112
Match length
                  82
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144848
Seq. No.
Seq. ID
                  LIB3168-051-P1-K1-A8
Method
                  BLASTN
                  g3402695
NCBI GI
BLAST score
                  334
                  0.0e + 00
E value
                  397
Match length
                  96
% identity
                  Arabidopsis thaliana chromosome II BAC T3K9 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  144849
Seq. No.
                  LIB3168-051-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204299 ·
BLAST score
                  619
                  9.0e-65
E value
                  122
Match length
% identity
                   (AC003027) 1cl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
                  144850
Seq. No.
                  LIB3168-051-P1-K1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4539335
BLAST score
                  156
                  2.0e-10
E value
Match length
                  42
% identity
                  (AL035539) putative protein [Arabidopsis thaliana]
NCBI Description
                  144851
Seq. No.
                  LIB3168-051-P1-K1-B10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3367573
BLAST score
                  562
E value
                  4.0e-58
Match length
                  110
% identity
                  (AL031135) homeodomain - like protein [Arabidopsis
NCBI Description
                  thaliana]
                  144852
Seq. No.
                  LIB3168-051-P1-K1-B11
Seq. ID
```

g112737 NCBI GI BLAST score 545 5.0e-56 E value Match length 132 80 % identity 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana] 144853 Seq. No. Seq. ID LIB3168-051-P1-K1-B12 Method BLASTX g1170317 NCBI GI 573 BLAST score E value 2.0e-60 Match length 118 % identity 96 3-HYDROXY-3-METHYLGLUTARYL-COENZYME A REDUCTASE 2 (HMG-COA NCBI Description REDUCTASE 2) (HMGR2) >gi\_388558 (L19262) 3-hydroxy-3-methylglutaryl-CoA reductase [Arabidopsis thaliana] >gi\_2262168 (AC002329) 3-hydroxy-3-methylglutaryl-CoA reductase (HMG2 protein) [Arabidopsis thaliana] 144854 Seq. No. LIB3168-051-P1-K1-B4 Seq. ID Method BLASTX NCBI GI g4056505 BLAST score 284 2.0e-25 E value Match length 134 49 % identity (AC005896) nodulin-like protein [Arabidopsis thaliana] NCBI Description 144855 Seq. No. LIB3168-051-P1-K1-B5 Seq. ID Method BLASTX NCBI GI q112737 BLAST score 162 4.0e-11 E value Match length 66 58 % identity NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]

Seq. No. 144856

Seq. ID LIB3168-051-P1-K1-B7

Method BLASTX

precursor [Arabidopsis thaliana]

>gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1

NCBI GI

```
g1628583
NCBI GI
BLAST score
                  661
E value
                  1.0e-69
Match length
                  140
                  92
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144857
Seq. ID
                  LIB3168-051-P1-K1-B8
Method
                  BLASTX
                  q3250695
NCBI GI
                  237
BLAST score
E value
                  5.0e-20
Match length
                  114
% identity
                  52
                   (AL024486) putative protein [Arabidopsis thaliana]
NCBI Description
                  144858
Seq. No.
                  LIB3168-051-P1-K1-B9
Seq. ID
Method
                  BLASTX
                  g3264805
NCBI GI
BLAST score
                  355
E value
                  8.0e-34
Match length
                  79
% identity
                  92
                   (AF071788) phosphoenolpyruvate carboxylase [Arabidopsis
NCBI Description
                  thaliana] >gi_4079630_emb_CAA10486_ (AJ131710) phospho
                  enole pyruvate carboxylase [Arabidopsis thaliana]
Seq. No.
                  144859
                  LIB3168-051-P1-K1-C1
Seq. ID
Method
                  BLASTN
                  g2623294
NCBI GI
BLAST score
                  331
E value
                  0.0e+00
Match length
                  387
                  96
% identity
                  Arabidopsis thaliana chromosome II BAC T20B5 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144860
                  LIB3168-051-P1-K1-C10
Seq. ID
                                                 .
Method
                  BLASTN
                  g4580365
NCBI GI
BLAST score
                  421
E value
                  0.0e + 00
Match length
                  421
% identity
                  Arabidopsis thaliana chromosome I BAC F3F20 genomic
NCBI Description
                  sequence, complete sequence
                  144861
Seq. No.
Seq. ID
                  LIB3168-051-P1-K1-C11
Method
                  BLASTN
```

g2262155

```
239 .
BLAST score
                   1.0e-132
E value
                   389
Match length
                   98
% identity
NCBI Description
                   DNA sequence of Arabidopsis thaliana BAC F5J6 from
                   chromosome IV, complete sequence [Arabidopsis thaliana]
                   144862
Seq. No.
                   LIB3168-051-P1-K1-C12
Seq. ID
Method
                   BLASTX
                   g170354
NCBI GI
BLAST score
                   612
E value
                   8.0e-64
                   124
Match length
                   22
% identity
                   (M74156) pentameric polyubiquitin [Nicotiana sylvestris]
NCBI Description
                   144863
Seq. No.
                   LIB3168-051-P1-K1-C2
Seq. ID
                   BLASTX
Method
NCBI GI
                   g1628583
BLAST score
                   167
E value
                   1.0e-11
                   116
Match length
                   96
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144864
Seq. No.
                   LIB3168-051-P1-K1-C4
Seq. ID
                   BLASTN
Method
                   g829157
NCBI GI
                   55
BLAST score
                   4.0e-22
E value
                   74
.Match length
                   93
% identity
NCBI Description
                   Arabidopsis thaliana 3-hydroxy-3-methylglutaryl-CoA
                   reductase (HMG2) gene, complete cds
                   144865
Seq. No.
                   LIB3168-051-P1-K1-C5
Seq. ID
Method
                   BLASTX
                   g2739010
NCBI GI
                   273
BLAST score
                   4.0e-24
E value
                   75
Match length
% identity
                   (AF022464) CYP77A3p [Glycine max]
NCBI Description
                   144866
Seq. No.
                   LIB3168-051-P1-K1-C6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   247
                   4.0e-26
E value
```

86

Match length

NCBI GI

BLAST score

```
% identity
                  76
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853 pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  144867
Seq. No.
                  LIB3168-051-P1-K1-C7
Seq. ID
Method
                  BLASTX
                  g4512631
NCBI GI
                  213
BLAST score
                  4.0e-17
E value
                  79
Match length
                  58
% identity
                   (AC004793) Contains similarity to gi_3249080 T13D8.24 MYB
NCBI Description
                  transcription factor homolog from A. thaliana BAC
                  gb AC004473. [Arabidopsis thaliana]
                  144868
Seq. No.
                  LIB3168-051-P1-K1-C8
Seq. ID
Method
                  BLASTX
                  g2244749
NCBI GI
                  587
BLAST score
E value
                  6.0e-61
Match length
                  114
% identity
                  97
                  (297335) hydroxymethyltransferase [Arabidopsis thaliana]
NCBI Description
                  144869
Seq. No.
                  LIB3168-051-P1-K1-C9
Seq. ID
Method
                  BLASTX
                  g4678924
NCBI GI
                  152
BLAST score
                  5.0e-10
E value
                  63
Match length
% identity
                  46
                   (AL049711) putative protein [Arabidopsis thaliana]
NCBI Description
                  144870
Seq. No.
                  LIB3168-051-P1-K1-D1
Seq. ID
                  BLASTN
Method
NCBI GI
                  q2605713
                  175
BLAST score
                  6.0e-94
E value
                  225
Match length
                  96
% identity
                  Arabidopsis thaliana beta-tonoplast intrinsic protein
NCBI Description
                   (beta-TIP) mRNA, complete cds
                  144871
Seq. No.
                  LIB3168-051-P1-K1-D10
Seq. ID
Method
                  BLASTN
```

q3236234

339

BLAST score

462

```
E value
                   0.0e + 00
Match length
                   363
                   98
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F13M22 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
                   144872
Seq. No.
                  LIB3168-051-P1-K1-D11
Seq. ID
Method
                  BLASTX
NCBI GI
                   q1071913
BLAST score
                   360
                   3.0e-34
E value
Match length
                   139
% identity
NCBI Description
                   cysteine synthase (EC 4.2.99.8) C precursor, mitochondrial
                   - spinach >gi 1066153 dbj BAA07177 (D37963) cysteine
                  synthase [Spinacia oleracea]
                  144873
Seq. No.
Seq. ID
                  LIB3168-051-P1-K1-D12
Method
                  BLASTX
NCBI GI
                  q3264805
BLAST score
                   635
E value
                  1.0e-66
                  138
Match length
% identity
NCBI Description
                   (AF071788) phosphoenolpyruvate carboxylase (Arabidopsis
                   thaliana] >gi_4079630_emb_CAA10486_ (AJ131710) phospho
                  enole pyruvate carboxylase [Arabidopsis thaliana]
Seq. No.
                  144874
                  LIB3168-051-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3264778
BLAST score
                  171
E value
                   4.0e-12
Match length
                  59
% identity
                   (AF072536) H-protein promoter binding factor-1 [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  144875
                  LIB3168-051-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g16245
BLAST score
                  328
E value
                  2.0e-30
Match length
                  100
% identity
                   (X51514) precursor acetolactate synthase (670 AA)
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  144876
                  LIB3168-051-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3860277
```

```
E value
                  3.0e-46
Match length
                  134
                  71
% identity
                   (AC005824) putative ribosomal protein L10 [Arabidopsis
NCBI Description
                  thaliana] >gi_4314394_gb_AAD15604_ (AC006232) putative
                  ribosomal protein L10A [Arabidopsis thaliana]
                  144877
Seq. No.
                  LIB3168-051-P1-K1-D5
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
                  625
BLAST score
                  2.0e-65
E value
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144878
Seq. No.
                  LIB3168-051-P1-K1-D6
Seq. ID
                  BLASTN
Method
                  g2959729
NCBI GI
BLAST score
                  386
                  0.0e+00
E value
                  402
Match length
                  99
% identity
                  Arabidopsis thaliana mRNA for GATA transcription factor
NCBI Description
                  144879
Seq. No.
                  LIB3168-051-P1-K1-D7
Seq. ID
                  BLASTX
Method
                  g1070654
NCBI GI
                  345
BLAST score
                  8.0e-46
E value
                  98
Match length
                  86
% identity
NCBI Description
                  cruciferin 4 precursor - rape
Seq. No.
                  144880
                  LIB3168-051-P1-K1-E1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4204299
BLAST score
                  82
                  1.0e-01
E value
                  136
Match length
                  51
% identity
                   (AC003027) lcl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  144881
Seq. ID
                  LIB3168-051-P1-K1-E10
                  BLASTX
Method
                  g112682
NCBI GI
BLAST score
                  742
                  4.0e-79
E value
```

140

Match length

```
100
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  tha\overline{1}iana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144882
Seq. No.
                  LIB3168-051-P1-K1-E11
Seq. ID
                  BLASTX
Method
                  g2369714
NCBI GI
                  548
BLAST score
                   2.0e-56
E value
                   138
Match length
                   75
% identity
                   (Z97178) elongation factor 2 [Beta vulgaris]
NCBI Description
Seq. No.
                  144883
                  LIB3168-051-P1-K1-E12
Seq. ID
Method
                   BLASTX
                   g2129633
NCBI GI
                   448
BLAST score
E value
                   1.0e-44
                   114
Match length
                   82
% identity
                  LEA protein Le25 homolog - Arabidopsis thaliana
NCBI Description
                   >gi_984050_emb_CAA61676_ (X89505) LEA protein Le25 homolog
                   [Arabidopsis thaliana]
                   144884
Seq. No.
                   LIB3168-051-P1-K1-E4
Seq. ID
                   BLASTX
Method
                   g2244998
NCBI GI
BLAST score
                   152
                   7.0e-10
E value
                   89
Match length
                   35
% identity
                   (Z97341) similarity to probable transcriptional adaptor
NCBI Description
                   ADA2 [Arabidopsis thaliana]
                   144885
Seq. No.
                   LIB3168-051-P1-K1-E7
Seq. ID
                   BLASTX
Method
                   g1628583
NCBI GI .
                   619
BLAST score
                   1.0e-64
E value
                   120
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144886
Seq. No.
                   LIB3168-051-P1-K1-E8
Seq. ID
                   BLASTN
Method
                   g4432793
NCBI GI
```

238

BLAST score

Match length

93

```
1.0e-131
E value
                  286
Match length
                  96
% identity
                  Arabidopsis thaliana chromosome II BAC T19K21 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  144887
Seq. No.
                  LIB3168-051-P1-K1-E9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4204298
                  464
BLAST score
                  1.0e-46
E value
                  88
Match length
                  100
% identity
                   (AC003027) lcl_prt_seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
                  144888
Seq. No.
                  LIB3168-051-P1-K1-F10
Seq. ID
                  BLASTN
Method
                  g3004543
NCBI GI
BLAST score
                  219
                  1.0e-120
E value
                  244
Match length
                   97
% identity
                  Arabidopsis thaliana chromosome II BAC F19F24 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  144889
Seq. No.
                  LIB3168-051-P1-K1-F11
Seq. ID
                  BLASTX
Method
                   g4406775
NCBI GI
                   206
BLAST score
                   3.0e-16
E value
                  82
Match length
                   49
% identity
                   (AC006836) unknown protein [Arabidopsis thaliana]
NCBI Description
                  144890
Seq. No.
                  LIB3168-051-P1-K1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                   g1628583
BLAST score
                   688
                   9.0e-73
E value
                   132
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144891
Seq. No.
                  LIB3168-051-P1-K1-F2
Seq. ID
Method
                  BLASTX
NCBI GI
                   q1864017
BLAST score
                   455
                   1.0e-45
E value
```

```
% identity
                  95
                  (D63396) elongation factor-1 alpha [Nicotiana tabacum]
NCBI Description
Seq. No.
                  144892
                  LIB3168-051-P1-K1-F5
Seq. ID
                  BLASTX
Method
                  g112739
NCBI GI
                  380
BLAST score
                  1.0e-36
E value
Match length
                  116
                  68
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
               precursor [Arabidopsis thaliana]
                  144893
Seq. No.
                  LIB3168-051-P1-K1-F6
Seq. ID
Method
                  BLASTX
                  g1352681
NCBI GI
                  232
BLAST score
                  3.0e-19
E value
                  70
Match length
                  64
% identity
                  PROTEIN PHOSPHATASE 2C (PP2C) >gi_1076391_pir__S55457
NCBI Description
                  phosphoprotein phosphatase (EC 3.\overline{1}.3.16) \overline{2}C - Arabidopsis
                  thaliana >gi 633028 dbj BAA07287 (D38109) protein
                  phosphatase \(\frac{2}{C}\) [Arabidopsis thaliana]
Seq. No.
                  144894
                  LIB3168-051-P1-K1-F7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  660
                  2.0e-69
E value
                  131
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144895
Seq. ID
                  LIB3168-051-P1-K1-F8
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  556
                  3.0e-57
E value
                  131
Match length
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
```

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis

```
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed storage protein [Arabidopsis thaliana]
```

 Seq. No.
 144896

 Seq. ID
 LIB3168-051-P1-K1-F9

 Method
 BLASTN

 NCBI GI
 g2262155

 BLAST SCOPE
 388

BLAST score 388
E value 0.0e+00
Match length 392
% identity 100

NCBI Description DNA sequence of Arabidopsis thaliana BAC F5J6 from chromosome IV, complete sequence [Arabidopsis thaliana]

Seq. No. 144897

Seq. ID LIB3168-051-P1-K1-G10

Method BLASTX
NCBI GI g1628583
BLAST score 412
E value 2.0e-40
Match length 112
% identity 74

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144898

Seq. ID LIB3168-051-P1-K1-G11

Method BLASTX
NCBI GI g112739
BLAST score 466
E value 1.0e-46
Match length 130
% identity 73

NCBI Description 2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68854\_pir\_NWMU2 2S albumin 2 precursor - Arabidonsis thaliana >gi\_166615 (M22033) albumin 2S su

Arabidopsis thaliana >gi\_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi\_395205\_emb\_CAA80871\_

(Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]

>gi\_4490711\_emb\_CAB38845.1\_ (AL035680) NWMU2-2S albumin 2

precursor [Arabidopsis thaliana]

Seq. No. 144899

Seq. ID LIB3168-051-P1-K1-G12

Method BLASTX
NCBI GI g1628583
BLAST score 606
E value 3.0e-63
Match length 119
% identity 98

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 144900

Seq. ID LIB3168-051-P1-K1-G2

Method BLASTX

Seq. ID

```
NCBI GI
                  q4185141
BLAST score
                  545
E value
                  5.0e-56
Match length
                  122
% identity
NCBI Description
                   (AC005724) putative calmodulin-binding protein [Arabidopsis
                  thaliana]
Seq. No.
                  144901
Seq. ID
                  LIB3168-051-P1-K1-G3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  492
E value
                  9.0e-56
Match length
                  119
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144902
Seq. No.
Seq. ID
                  LIB3168-051-P1-K1-G6
Method
                  BLASTN
NCBI GI
                  q511598
BLAST score
                  398
E value
                  0.0e + 00
Match length
                  426
% identity
                  Arabidopsis thaliana cell wall protein (APTR-1) gene,
NCBI Description
                  complete cds
                  144903
Seq. No.
                  LIB3168-051-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  533
                  4.0e-59
E value
Match length
                  117
                  94
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144904
Seq. No.
Seq. ID
                  LIB3168-051-P1-K1-G8
Method
                  BLASTX
NCBI GI
                  g3924597
BLAST score
                  699
E value
                  5.0e-74
Match length .
                  137
% identity
                  97
NCBI Description
                  (AF069442) putative oxidoreductase [Arabidopsis thaliana]
                  144905
Seq. No.
```

LIB3168-051-P1-K1-G9

NCBI Description

```
Method
                  BLASTN
NCBI GI
                  g3335356
BLAST score
                  148
                  9.0e-78
E value
Match length
                  242
% identity
                  Arabidopsis thaliana chromosome II BAC F16M14 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144906
                  LIB3168-051-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2160151
BLAST score
                  616
                  3.0e-64
E value
Match length
                  124
                  96
% identity
                  (AC000375) Strong similarity to Brassica aspartic protease
NCBI Description
                  (gb X77260). [Arabidopsis thaliana]
Seq. No.
                  144907
                  LIB3168-051-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
                  576
BLAST score
E value
                  9.0e-60
Match length
                  107
% identity
                  99
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144908
                  LIB3168-051-P1-K1-H12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  628
                  9.0e-66
E value
Match length
                  127
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144909
Seq. No.
Seq. ID
                  LIB3168-051-P1-K1-H5
Method
                  BLASTX
NCBI GI ··
                  g131325
                  689
BLAST score
E value
                  7.0e-73
Match length
                  135
                  98
% identity
```

NADH-UBIQUINONE OXIDOREDUCTASE SUBUNIT K

```
chloroplast
                  144910
Seq. No.
                  LIB3168-051-P1-K1-H6
Seq. ID
                  BLASTX
Method
                  g1076303
NCBI GI
                  45
BLAST score
                  4.0e-31
E value
                  73
Match length
                  100
% identity
                  RNA-binding protein cp29 precursor - Arabidopsis thaliana
NCBI Description
                  >gi_681902_dbj_BAA06518_ (D31710) cp29 [Arabidopsis
                  thalianal
                  144911
Seq. No.
                  LIB3168-051-P1-K1-H7
Seq. ID
                  BLASTX
Method
                  g112741
NCBI GI
                  621
BLAST score
                  7.0e-65
E value
Match length
                  131
                  89
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  144912
Seq. No.
                  LIB3168-051-P1-K1-H8
Seq. ID
                  BLASTX
Method
                  g112737
NCBI GI
                  625
BLAST score
                  2.0e-65
E value
Match length
                  134
                  90
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
  - 25
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  144913
Seq. No.
                  LIB3168-051-P1-K1-H9
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  658
                  3.0e-69
E value
Match length
                  137
                  91
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
```

>qi 72687 pir\_\_F2NTG psbG protein - common tobacco

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana]

144914

Seq. No. LIB3168-052-P1-K1-A1 Seq. ID

BLASTX Method g4220533 NCBI GI 587 BLAST score 6.0e-61 E value 119 Match length % identity

(AL035356) putative mitochondrial uncoupling protein NCBI Description

[Arabidopsis thaliana]

144915 Seq. No.

LIB3168-052-P1-K1-A10 Seq. ID

Method BLASTN NCBI GI g4589444 BLAST score 212 1.0e-116 E value Match length 244 97 % identity

Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description

MWF20, complete sequence

144916 Seq. No.

Seq. ID LIB3168-052-P1-K1-A2

Method BLASTX q3935154 NCBI GI BLAST score 302 2.0e-27 E value Match length 90

% identity 62

(AC005106) T25N20.18 [Arabidopsis thaliana] NCBI Description

144917 Seq. No.

Seq. ID LIB3168-052-P1-K1-A3

Method BLASTX NCBI GI g3929364 BLAST score 548 2.0e-56 E value 120 Match length % identity 90

NADH-UBIQUINONE OXIDOREDUCTASE 23 KD SUBUNIT PRECURSOR NCBI Description

(COMPLEX I-23KD) (CI-23KD) >gi\_1076356\_pir\_\_S52380 NADH dehydrogenase (EC 1.6.99.3) - Arabidopsis thaliana >gi\_666977\_emb\_CAA59061\_ (X84318) NADH dehydrogenase [Arabidopsis thaliana] >gi\_3152573 (AC002986) Match to NADH: ubiquinone oxidoreductase gb\_X84318 from A.thaliana. ESTs gb\_Z27005, gb\_T04711, gb\_T45 $\overline{0}$ 78 and gb\_Z28689 come

from this gene. [Arabidopsis thaliana]

144918 Seq. No.

LIB3168-052-P1-K1-A4 Seq. ID

Method BLASTX NCBI GI g112682

```
BLAST score
                  587
E value
                  6.0e-61
Match length
                  108
% identity
                  100
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144919
Seq. No.
                  LIB3168-052-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2792155
BLAST score
                  202
E value
                  9.0e-16
                  76
Match length
% identity
                  46
                  (AJ223291) chalcone reductase [Sesbania rostrata]
NCBI Description
                  144920
Seq. No.
                  LIB3168-052-P1-K1-A7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  639
                  5.0e-67
E value
Match length
                  119
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144921
Seq. ID
                  LIB3168-052-P1-K1-A8
Method
                  BLASTX
NCBI GI
                  q4584110
BLAST score
                  324
E value
                  4.0e-30
Match length
                  122
% identity
                 (AJ133639) SAH7 protein [Arabidopsis thaliana]
NCBI Description
                  144922
Seq. No.
Seq. ID
                  LIB3168-052-P1-K1-B10
Method
                  BLASTN
                  g2264309
NCBI GI
BLAST score
                  394
E value
                  0.0e + 00
Match length
                  398
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
```

MJJ3, complete sequence [Arabidopsis thaliana]

```
144923
Seq. No.
Seq. ID
                  LIB3168-052-P1-K1-B11
Method
                  BLASTX
NCBI GI
                  q99992
BLAST score
                  320
E value
                  1.0e-29
                  104
Match length
                   43
% identity
                  protein disulfide-isomerase (EC 5.3.4.1) precursor -
NCBI Description
                  alfalfa (clone B2) >gi_166418 (M82973) putative
                  endomembrane protein; putative [Medicago sativa]
Seq. No.
                  144924
                  LIB3168-052-P1-K1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  593
                  1.0e-61
E value
                  116
Match length
                  98
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144925
Seq. No.
                  LIB3168-052-P1-K1-B3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4580732
BLAST score
                  44
                  1.0e-15
E value
                  202
Match length
% identity
                  Genomic sequence for Arabidopsis thaliana BAC F5J5,
NCBI Description
                  complete sequence
Seq. No.
                  144926
Seq. ID
                  LIB3168-052-P1-K1-B4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  657
                  4.0e-69
E value
                  129
Match length
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144927
                  LIB3168-052-P1-K1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  549
                  2.0e-56
E value
Match length
                  129
                  83
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
```

cruciferin precursor (CRA1) - Arabidopsis thaliana

```
storage protein [Arabidopsis thaliana]
                  144928
Seq. No.
Seq. ID
                  LIB3168-052-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g2281099
BLAST score
                  711
                  2.0e-75
E value
                  133
Match length
                  100
% identity
NCBI Description
                  (AC002333) stearoyl-ACP desaturase [Arabidopsis thaliana]
                  144929
Seq. No.
                  LIB3168-052-P1-K1-B7
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  673
                  5.0e-71
E value
                  129
Match length
% identity
                  99
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144930
                  LIB3168-052-P1-K1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  380
E value
                  4.0e-37
                  75
Match length
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144931
                  LIB3168-052-P1-K1-C10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3402695
BLAST score
                  210
E value
                  1.0e-114
Match length
                  363
% identity
                  95
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T3K9 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144932
Seq. ID
                  LIB3168-052-P1-K1-C11
Method
                  BLASTN
NCBI GI
                  g4376087
BLAST score
                  200
                  1.0e-108
E value
Match length
                  355
```

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

97

% identity

```
Arabidopsis thaliana DNA chromosome 4, ESSA I AP2 contig
NCBI Description
                  fragment No
Seq. No.
                  144933
                  LIB3168-052-P1-K1-C12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  416
E value
                  7.0e-41
                  119
Match length
% identity
                  71
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  144934
Seq. No.
Seq. ID
                  LIB3168-052-P1-K1-C2
Method
                  BLASTN
                  g4079614
NCBI GI
BLAST score
                  92
E value
                  1.0e-44
                                                    5...
Match length
                  96
% identity
                  99
                  Arabidopsis thaliana chromosome I BAC F21M11 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  144935
                  LIB3168-052-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  597
E value
                  4.0e-62
Match length
                  126
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144936
                  LIB3168-052-P1-K1-C4
Seq. ID
Method
                  BLASTX
                  g66179
NCBI GI
BLAST score
                  629
                  7.0e-66
E value
Match length
                  134
% identity
                  87
NCBI Description
                  NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 4 -
                  common tobacco chloroplast >gi_225255_prf__1211235CP NADH
                  dehydrogenase 4-like ORF 509B [Nicotiana tabacum]
```

144937

Seq. No.

```
LIB3168-052-P1-K1-C5
Seq. ID
Method
                   BLASTN
NCBI GI
                   q4159704
BLAST score
                   48
E value
                   7.0e-18
Match length
                   64
                   94
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MCB17, complete sequence
Seq. No.
                   144938
                   LIB3168-052-P1-K1-C6
Seq. ID
Method
                   BLASTX
NCBI GI
                   q4101589
BLAST score
                   362
E value
                   1.0e-34
Match length
                   120
% identity
NCBI Description
                   (AF005050) aspartyl aminopeptidase [Homo sapiens]
                   144939
Seq. No.
                   LIB3168-052-P1-K1-C7
Seq. ID
Method
                   BLASTN
NCBI GI
                   q4199934
BLAST score
                   248
E value
                   1.0e-137
Match length
                   288
                   97
% identity
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   144940
Seq. No.
                   LIB3168-052-P1-K1-C8
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   341
E value
                   3.0e-32
Match length
                   107
                   68
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   144941
Seq. No.
Seq. ID
                   LIB3168-052-P1-K1-D1
Method
                  BLASTX
NCBI GI
                   q1628583
BLAST score
                   674
                   4.0e-71
E value
Match length
                   129
% identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

Seq. ID

```
144942
Seq. No.
                  LIB3168-052-P1-K1-D11
Seq. ID
                  BLASTX
Method
                  g4160402
NCBI GI
                  242
BLAST score
                  1.0e-20
E value
                  112
Match length
                  53
% identity
                   (AJ132240) eukaryotic translation initiation factor 5 [Zea
NCBI Description
                  mays]
                  144943
Seq. No.
                  LIB3168-052-P1-K1-D12
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  546
                   4.0e-56
E value
                  126
Match length
                  87
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144944
Seq. No.
                  LIB3168-052-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3885334
                  701
BLAST score
                  3.0e-74
E value
                  132
Match length
                  100
% identity
                   (AC005623) putative argonaute protein [Arabidopsis
NCBI Description
                   thaliana]
                  144945
Seq. No.
                  LIB3168-052-P1-K1-D3
Seq. ID
                  BLASTN
Method
                  g3821780
NCBI GI
BLAST score
                  33
                   6.0e-09
E value
Match length
                   48
                   64
% identity
                  Xenopus laevis cDNA clone 27A6-1
NCBI Description
                   144946
Seq. No.
                  LIB3168-052-P1-K1-D4
Seq. ID
Method
                   BLASTN
NCBI GI
                   q2618601
BLAST score
                   392
                   0.0e+00
E value
                   392
Match length
                   100
% identity.
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MHJ24, complete sequence [Arabidopsis thaliana]
Seq. No.
                   144947
```

LIB3168-052-P1-K1-D5

```
BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  622
E value
                  4.0e-65
                  125
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144948
Seq. No.
Seq. ID
                  LIB3168-052-P1-K1-D7
                  BLASTX
Method
NCBI GI
                  q112682
BLAST score
                  544
                  6.0e-56
E value
Match length
                  116
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144949
                  LIB3168-052-P1-K1-D8
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3243214
BLAST score
                  103
E value
                  1.0e-50
Match length
                  311
% identity
                  Arabidopsis thaliana BAC T19B17 from chromsome IV, near
NCBI Description
                  19.3 cM, complete sequence [Arabidopsis thaliana]
                  144950
Seq. No.
Seq. ID
                  LIB3168-052-P1-K1-D9
Method
                  BLASTX
NCBI GI
                  a2851581
BLAST score
                  643
                  2.0e-67
E value
Match length
                  130
                  98
% identity
                  DNA-DIRECTED RNA POLYMERASE BETA CHAIN
NCBI Description
                  >gi_2196464_emb_CAA74024_ (Y13690) DNA-dependent RNA
                  polymerase subunit beta [Arabidopsis thaliana]
Seq. No.
                  144951
Seq. ID
                  LIB3168-052-P1-K1-E1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score .
                  560
E value
                  7.0e-58
Match length
                  116
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

## cruciferin seed storage protein [Arabidopsis thaliana]

```
144952
Seq. No.
Seq. ID
                  LIB3168-052-P1-K1-E10
Method
                  BLASTX
                  g3927825
NCBI GI
BLAST score
                  684
E value
                  3.0e-72
Match length .
                  132
% identity
                  (AC005727) putative dTDP-glucose 4-6-dehydratase
NCBI Description
                  [Arabidopsis thaliana]
                  144953
Seq. No.
                  LIB3168-052-P1-K1-E11
Seq. ID
Method
                  BLASTX
                  g1172873
NCBI GI
BLAST score
                  250
                  2.0e-21
E value
                  106
Match length
                  51
% identity
                  CYSTEINE PROTEINASE RD21A PRECURSOR >gi_541857_pir__JN0719
NCBI Description
                  drought-inducible cysteine proteinase (EC 3.4.22.-) RD21A
                  precursor - Arabidopsis thaliana >gi_435619_dbj_BAA02374_
                  (D13043) thiol protease [Arabidopsis thaliana]
Seq. No.
                  144954
                  LIB3168-052-P1-K1-E12
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  364
E value
                  8.0e-35
                  109
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144955
Seq. ID
                  LIB3168-052-P1-K1-E3
Method
                  BLASTX
                  q1871182
NCBI GI
BLAST score
                  444
                  3.0e-44
E value
Match length
                  83
% identity
                  (U90439) phospholipase D isolog [Arabidopsis thaliana]
NCBI Description
                  144956
Seq. No.
                  LIB3168-052-P1-K1-E5
Seq. ID
Method
                  BLASTN
                  g4159707
NCBI GI
                  277
BLAST score
                  1.0e-154
E value
```

409

Match length

```
99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MJK13, complete sequence
                  144957
Seq. No.
                  LIB3168-052-P1-K1-E7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
                  652
BLAST score
E value
                  1.0e-68
                  127
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144958
Seq. No.
                  LIB3168-052-P1-K1-E8
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4204298
BLAST score
                  576
                  1.0e-59
E value
                  128
Match length
                  87
% identity
                   (AC003027) 1cl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  144959
                  LIB3168-052-P1-K1-E9
Seq. ID
                  BLASTX
Method
                  q4587564
NCBI GI
BLAST score
                  642
                  2.0e-67
E value
                  127
Match length
                  100
% identity
                  (AC006550) Strong similarity to gb_X14017 photosystem I
NCBI Description
                  reaction centre subunit II precursor (psaD) from Spinacia
                  oleracea. ESTs gb_R30423, gb_T42998, gb_Z18178, gb_T14133,
                  gb N65521, gb T42498, gb_T41918, gb_N38024
                  144960
Seq. No.
                  LIB3168-052-P1-K1-F1
Seq. ID
Method
                  BLASTX
                  g3808062
NCBI GI
                  161
BLAST score
                  5.0e-11
E value
                  68
Match length
% identity
                  (AB019195) PV100 [Cucurbita maxima]
NCBI Description
                  144961
Seq. No.
                  LIB3168-052-P1-K1-F10
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  569
E value
                  8.0e-59
Match length
                  133
```

```
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   144962
                   LIB3168-052-P1-K1-F11
Seq. ID
                   BLASTX
Method
                   g1628583
NCBI GI
BLAST score
                   479
E value
                   2.0e-48
                   99
Match length
                   95
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
      *
                   144963
Seq. No.
                   LIB3168-052-P1-K1-F12
Seq. ID
                   BLASTX
Method
                   g1628583
NCBI GI
BLAST score
                   618
                   1.0e-64
E value
                   120
Match length
                   99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   144964
Seq. No.
                   LIB3168-052-P1-K1-F2
Seq. ID
                   BLASTX
Method
NCBI GI
                   g2129657
                   315
BLAST score
                   5.0e-29
E value
                   97
Match length
                   71
% identity
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi 987014 emb CAA90877_ (Z54164) oleosin [Arabidopsis
                   thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                    [Arabidopsis thaliana]
                   144965
Seq. No.
                   LIB3168-052-P1-K1-F3
Seq. ID
                   BLASTX
Method
NCBI GI
                   g132901
BLAST score
                   320
                   1.0e-29
E value
Match length
                   66
% identity
                   CHLOROPLAST 50S RIBOSOMAL PROTEIN L33 >gi_71356_pir_ R5NT33
NCBI Description
                   ribosomal protein L33 - common tobacco chloroplast >gi_11850_emb_CAA77370_ (Z00044) ribosomal protein L33 [Nicotiana tabacum] >gi_225219_prf__1211235BA ribosomal
```

protein L33 [Nicotiana tabacum]

```
144966
Seq. No.
                  LIB3168-052-P1-K1-F5
Seq. ID
                  BLASTX
Method
                  q112681
NCBI GI
                  487
BLAST score
                  3.0e-49
E value
                  133
Match length
                  78
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  144967
Seq. No.
                  LIB3168-052-P1-K1-F6
Seq. ID
                  BLASTX
Method
NCBI GI
                  q3157937
BLAST score
                  109
E value
                  8.0e-57
                  123
Match length
% identity
                  (AC002131) Identical to aspartic proteinase cDNA gb U51036
NCBI Description
                  from A. thaliana. ESTs gb_N96313, gb_T21893, gb_R30158,
                  gb_T21482, gb_T43650, gb_R64749, gb_R65157, gb_T88269,
                  gb_T44552, gb_T22542, gb_T76533, gb_T44350, gb_Z34591,
                  gb AA728734, gb
                  144968
Seq. No.
                  LIB3168-052-P1-K1-F7
Seq. ID
Method
                  BLASTX
                  g2160151
NCBI GI
BLAST score
                  483
                  9.0e-49
E value
                  109
Match length
% identity
                  87
                   (AC000375) Strong similarity to Brassica aspartic protease
NCBI Description
                   (gb_X77260). [Arabidopsis thaliana]
                  144969
Seq. No.
Seq. ID
                  LIB3168-052-P1-K1-F8
Method
                  BLASTX
                  g1628583
NCBI GI
                  205
BLAST score
                   4.0e-16
E value
Match length
                  65
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  144970
                  LIB3168-052-P1-K1-G1
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
```

651

BLAST score

```
E value
                  2.0e-68
                  127
Match length
% identity
                  98
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144971
Seq. No.
                  LIB3168-052-P1-K1-G11
Seq. ID
                  BLASTX
Method
                  q1402906
NCBI GI
                  531
BLAST score
                  2.0e-54
E value
                  125
Match length
% identity
                  82
                  (X98314) peroxidase [Arabidopsis thaliana]
NCBI Description
                  >gi 4468977 emb CAB38291 (AL035605) peroxidase, prxr2
                  [Arabidopsis thaliana]
                  144972
Seq. No.
                  LIB3168-052-P1-K1-G12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112743
BLAST score
                  589
                  4.0e-61
E value
                  126
Match length
                  87
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68856 pir NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi 166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi 395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >qi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  144973
Seq. No.
                  LIB3168-052-P1-K1-G2
Seq. ID
Method
                  BLASTN -
NCBI GI
                  g3128139
BLAST score
                  390
E value
                 0.0e + 00
                  390
Match length
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MIK19, complete sequence [Arabidopsis thaliana]
                  144974
Seq. No.
                  LIB3168-052-P1-K1-G4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
144975
Seq. No.
                  LIB3168-052-P1-K1-G6
Seq. ID
                  BLASTX
Method
                  g1109699
NCBI GI
                  561
BLAST score
                  7.0e-58
E value
                  109
Match length
                   99
% identity
                   (X83381) gibberellin 20-oxidase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  144976
                  LIB3168-052-P1-K1-G7
Seq. ID
                  BLASTX
Method
                  q112737
NCBI GI
BLAST score
                  585
                   1.0e-60
E value
Match length
                  127
                  88
% identity.
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  144977
Seq. ID
                  LIB3168-052-P1-K1-G8
Method
                  BLASTX
                   q1628583
NCBI GI
                   443
BLAST score
                   4.0e-44
E value
Match length
                   120
                   74
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144978
                  LIB3168-052-P1-K1-G9
Seq. ID
                  BLASTX
Method
                   q1628583
NCBI GI
                   146
BLAST score
                   3.0e-09
E value
                   66
Match length
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144979
                  LIB3168-052-P1-K1-H11
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                   486
                   3.0e-49
E value
```

```
100
Match length
                  95
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144980
Seq. No.
                  LIB3168-052-P1-K1-H12
Seq. ID
                  BLASTN
Method .
NCBI GI
                  g3449331
                  369
BLAST score
E value
                  0.0e + 00
Match length
                  381
                  27
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, Pl clone:
NCBI Description
                  MNC17, complete sequence [Arabidopsis thaliana]
                  144981
Seq. No.
                  LIB3168-052-P1-K1-H3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3869062
BLAST score
                  46
                  1.0e-16
E value
                  149
Match length
                  91
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K11I1, complete sequence [Arabidopsis thaliana]
                  144982
Seq. No.
                  LIB3168-052-P1-K1-H4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2924258
BLAST score
                  669
                  1.0e-70
E value
                  131
Match length
% identity
                  (200044) RNA polymerase beta'' subunit [Nicotiana tabacum]
NCBI Description
Seq. No.
                  144983
                  LIB3168-052-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3695380
BLAST score
                  213
E value
                  4.0e-17
                  134
Match length
% identity
                  (AF096370) partial CDS; contains similarity to Nicotiana
NCBI Description
                  tabacum membrane-associated salt-inducible protein
                  (GB:U08285) [Arabidopsis thaliana]
Seq. No.
                  144984
                 · LIB3168-052-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1172969
BLAST score
                  169
                  4.0e-12
E value
```

36

Match length

E value

2.0e-54

```
% identity
NCBI Description
                   60S RIBOSOMAL PROTEIN L11 (L16) >gi_629552_pir__$49033
                   ribosomal protein L11.e - Arabidopsis thaliana >gi_550544_emb_CAA57394_ (X81798) ribosomal protein L16
                   [Arabidopsis thaliana]
                   144985
Seq. No.
                   LIB3168-052-P1-K1-H8
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4558674
BLAST score
                   57
E value
                   3.0e-23
Match length
                   258
% identity
                   93
NCBI Description
                   Arabidopsis thaliana chromosome II BAC F7B19 genomic
                   sequence, complete sequence
Seq. No.
                   144986
Seq. ID
                   LIB3168-052-P1-K1-H9
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   407
E value
                   8.0e-40
Match length
                   77
% identity
                   100
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495 emb CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144987
Seq. ID
                   LIB3168-053-P1-K1-A10
Method
                   BLASTN
NCBI GI
                   g2160132
BLAST score
                   421
E value
                   0.0e + 00
Match length
                   429
                   100
% identity
NCBI Description
                   Sequence of BAC F19K23 from Arabidopsis thaliana chromosome
                   1, complete sequence [Arabidopsis thaliana]
Seq. No.
                   144988
Seq. ID
                   LIB3168-053-P1-K1-A12
Method
                   BLASTX
                   g3860165
NCBI GI
BLAST score
                   528
E value
                   5.0e-54
Match length
                   142
                   22
% identity
NCBI Description
                   (AF098963) disease resistance protein RPP1-WsB [Arabidopsis
                   thalianal
                   144989
Seq. No.
Seq. ID
                   LIB3168-053-P1-K1-A2
Method
                   BLASTX
NCBI GI
                   g1628583
                   532
BLAST score
```

```
Match length
                  135
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144990
Seq. No.
                  LIB3168-053-P1-K1-A3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3121836
BLAST score
                  174
                  1.0e-12
E value
Match length
                  30
                  97
% identity
NCBI Description
                  PHOSPHATIDATE CYTIDYLYLTRANSFERASE (CDP-DIGLYCERIDE
                  SYNTHETASE) (CDP-DIGLYCERIDE PYROPHOSPHORYLASE)
                  (CDP-DIACYLGLYCEROL SYNTHASE) (CDS) (CTP:PHOSPHATIDATE
                  CYTIDYLYLTRANSFERASE) (CDP-DAG SYNTHASE)
                  >qi 2181182 emb CAA63969 (X94306) CDP-diacylglycerol
                  synthetase [Arabidopsis thaliana]
                  144991
Seq. No.
                  LIB3168-053-P1-K1-A4
Seq. ID
Method
                  BLASTX
                  q112681
NCBI GI
BLAST score
                  409
                  4.0e-40
E value
Match length
                  126
% identity
                  71
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144992
Seq. ID
                  LIB3168-053-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  527
E value
                  7.0e-54
Match length
                  125
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  144993
                  LIB3168-053-P1-K1-A6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
                  66
BLAST score
                  1.0e-28
E value
Match length
                  90
                  93
% identity
```

```
Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                   (ESSAII project)
                   144994
Seq. No.
                  LIB3168-053-P1-K1-A7
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   553
E value
                   5.0e-57
Match length
                  111
% identity
                   96
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   144995
                  LIB3168-053-P1-K1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                   g2317731
BLAST score
                   691
E value
                   4.0e-73
Match length
                  130
                   99
% identity
NCBI Description
                   (AF013628) reversibly glycosylated polypeptide-2
                   [Arabidopsis thaliana]
Seq. No.
                   144996
                  LIB3168-053-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1173218
BLAST score
                   468
                   5.0e-47
E value
                  99
Match length
% identity
                   94
                  40S RIBOSOMAL PROTEIN S15A >gi_440824 (L27461) ribosomal
NCBI Description
                  protein S15 [Arabidopsis thaliana] >gi_2150130 (AF001412)
                  cytoplasmic ribosomal protein S15a [Arabidopsis thaliana]
Seq. No.
                   144997
                  LIB3168-053-P1-K1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                   412
                   2.0e-40
E value
Match length
                  112
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  144998
Seq. No.
Seq. ID
                  LIB3168-053-P1-K1-B10
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  503
E value
                   3.0e-51
Match length
                  103
```

Seq. ID

% identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 144999 Seq. No. LIB3168-053-P1-K1-B11 Seq. ID Method BLASTX NCBI GI q4249382 BLAST score 498 E value 2.0e-50 Match length 120 % identity 77 (AC005966) Strong similarity to gi\_3337350 F13P17.3 NCBI Description putative permease from Arabidopsis thaliana BAC gb AC004481. [Arabidopsis thaliana] 145000 Seq. No. Seq. ID LIB3168-053-P1-K1-B2 BLASTX Method NCBI GI g1628583 533 BLAST score 1.0e-54 E value 105 Match length 98 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 145001 Seq. No. LIB3168-053-P1-K1-B3 Seq. ID Method BLASTX NCBI GI q112681 BLAST score 488 2.0e-49, E value 121 Match length % identity 80 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi 808936\_emb\_CAA32493\_ (X14312) 12S seed storage protein [Arabidopsis thaliana] 145002 Seq. No. Seq. ID LIB3168-053-P1-K1-B4 Method BLASTX NCBI GI q1628583 BLAST score 621 E value 7.0e-65 Match length 119 100 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 145003 Seq. No.

LIB3168-053-P1-K1-B5

```
Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    443
                    8.0e-69
 E value
 Match length
                    142
 % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    145004
 Seq. No.
 Seq. ID
                    LIB3168-053-P1-K1-B6
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    625
 E value
                    2.0e-65
                    120
 Match length
                    100
 % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
- NCBI Description
                    thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    145005
 Seq. No.
                    LIB3168-053-P1-K1-B7
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    329
                    6.0e-31
 E value
                    95
 Match length
 % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    145006
 Seq. No.
                    LIB3168-053-P1-K1-B8
 Seq. ID
 Method
                    BLASTN
 NCBI GI
                    g3821780
                    36
 BLAST score
                    9.0e-11
 E value
 Match length
                    49
                    67
 % identity
                   Xenopus laevis cDNA clone 27A6-1
 NCBI Description
                    145007
 Seq. No.
                    LIB3168-053-P1-K1-B9
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g112737
 BLAST score
                    588
 E value
                    5.0e-61
 Match length
                    140
 % identity
                    81
 NCBI Description
                    2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                    PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                    Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                    1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870_
```

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]

Seq. ID

```
precursor [Arabidopsis thaliana]
                  145008
Seq. No.
                  LIB3168-053-P1-K1-C1
Seq. ID
                  BLASTX
Method
                  g112743
NCBI GI
                  590
BLAST score
                  3.0e-61
E value
Match length
                  131
                  85
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >qi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  145009
Seq. No.
Seq. ID
                  LIB3168-053-P1-K1-C10
                  BLASTN
Method
                  g3668073
NCBI GI
BLAST score
                  413
                  0.0e+00
E value
Match length
                  424
                  99
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T4C15 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145010
                  LIB3168-053-P1-K1-C12
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2832611
                  204
BLAST score
                  1.0e-111
E value
                  248
Match length
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F13C5
                  (ESSAII project)
Seq. No.
                  145011
                  LIB3168-053-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
                  584
BLAST score
                  1.0e-60
E value
                  124
Match length
% identity
                  88
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937 emb CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145012
Seq. No.
```

>gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1

LIB3168-053-P1-K1-C3

```
Method
                  BLASTX
NCBI GI
                  q2129659
BLAST score
                  412
E value
                  2.0e-40
Match length
                  129
                  69
% identity
NCBI Description
                  oleosin, isoform 21K - Arabidopsis thaliana >gi_725260
                  (L40954) oleosin [Arabidopsis thaliana]
                  145013
Seq. No.
Seq. ID
                  LIB3168-053-P1-K1-C4
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145014
Seq. ID
                 LIB3168-053-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145015
Seq. ID
                  LIB3168-053-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145016
Seq. ID
                  LIB3168-053-P1-K1-C9
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  607
E value
                  3.0e-63
Match length
                  121
% identity
                  99
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
```

tha $\overline{1}$ iana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

## storage protein [Arabidopsis thaliana]

```
145017
Seq. No.
Seq. ID
                  LIB3168-053-P1-K1-D1
Method
                  BLASTN
                  q3659491
NCBI GI
                  241
BLAST score
E value
                  1.0e-133
                  433
Match length
                  100
% identity
                  Sequence of BAC T22H22 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  LIB3168-053-P1-K1-D10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2129767
                  617
BLAST score
E value
                  2.0e-64
                  126
Match length
                  91
% identity
                  vacuolar processing enzyme (EC 3.4.22.-) isozyme beta
NCBI Description
                  precursor - Arabidopsis thaliana >gi 1805364 dbj BAA09615
                  (D61394) beta-VPE [Arabidopsis thaliana]
                  145019
Seq. No.
                  LIB3168-053-P1-K1-D12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1592677
BLAST score
                  230
                  5.0e-19
E value
                  117
Match length
                  44
% identity
                  (X91912) LEA76 homologue type2 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145020
                  LIB3168-053-P1-K1-D2
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  172
                  3.0e-12
E value
Match length
                  64
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145021
Seq. No.
                  LIB3168-053-P1-K1-D5
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4587986
BLAST score
                  161
                  2.0e-85
E value
Match length
                  273:
% identity
                  95
                  Arabidopsis thaliana ABA-regulated gene cluster, complete
NCBI Description
                  sequence
```

```
145022
Seq. No.
                   LIB3168-053-P1-K1-D7
Seq. ID
Method
                   BLASTX
                   q112682
NCBI GI
                   595
-BLAST score
                   8.0e-62
E value
                   138
Match length
% identity
                   82
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145023
Seq. No.
                   LIB3168-053-P1-K1-D8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4102582
BLAST score
                   409
E value
                   5.0e-40
Match length
                   139
                   38
% identity
                   (AF013115) CAO [Arabidopsis thaliana]
NCBI Description
                   145024
Seq. No.
                   LIB3168-053-P1-K1-D9
Seq. ID
Method
                   BLASTX
                   g3892057
NCBI GI
                   726
BLAST score
E value
                   3.0e-77
Match length
                   142
                   63
% identity
                   (AC002330) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   145025
Seq. No.
Seq. ID
                   LIB3168-053-P1-K1-E1
Method
                   BLASTX
NCBI GI
                   q2244953
BLAST score
                   611
E value
                   1.0e-63
Match length
                   132
% identity
                   (Z97340) ATsEH homolog [Arabidopsis thaliana]
NCBI Description
                   145026
Seq. No.
Seq. ID
                   LIB3168-053-P1-K1-E12
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   721
                   1.0e-76
E value
Match length
                   134
% identity
                   100
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis \overline{\text{thaliana}} > \overline{\text{gi}}_{1}166616 (M22033) albumin 2S subunit
```

3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana]

Seq. No. 145027

Seq. ID LIB3168-053-P1-K1-E2

Method BLASTX
NCBI GI g1628583
BLAST score 601
E value 1.0e-62
Match length 113
% identity 100

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 145028

Seq. ID LIB3168-053-P1-K1-E6

Method BLASTX
NCBI GI g1628583
BLAST score 429
E value 1.0e-42
Match length 91
% identity 93

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 145029

Seq. ID LIB3168-053-P1-K1-E8

Method BLASTX
NCBI GI g1628583
BLAST score 551
E value 1.0e-56
Match length 139
% identity 78

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 145030

Seq. ID LIB3168-053-P1-K1-F1

Method BLASTX
NCBI GI g112681
BLAST score 652
E value 2.0e-68
Match length 129
% identity 99

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir \$08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 145031

Seq. ID LIB3168-053-P1-K1-F11

Method BLASTN

```
NCBI GI
                   q3335170
BLAST score
                   115
                   7.0e-58
E value
                   410
Match length
                   97
% identity
                   Arabidopsis thaliana embryo-specific protein 3 (ATS3) gene,
NCBI Description
                   complete cds
                   145032
Seq. No.
                   LIB3168-053-P1-K1-F12
Seq. ID
Method
                   BLASTX
                   q2129657
NCBI GI
                   346
BLAST score
                   1.0e-32
E value
                   99
Match length
                   75
% identity
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
                   145033
Seq. No.
                   LIB3168-053-P1-K1-F2
Seq. ID
Method
                   BLASTX
                   q112741
NCBI GI
                   519
BLAST score
                   5.0e-53
E value
Match length
                   113
% identity
                   87
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   145034
Seq. ID
                   LIB3168-053-P1-K1-F3
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   436
                   9.0e-56
E value
Match length
                   117
                   97
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145035
Seq. ID
                   LIB3168-053-P1-K1-F4
Method -
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   497
                   2.0e-50
E value
                   100
Match length
```

94

% identity

NCBI GI

```
(U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145036
Seq. No.
                  LIB3168-053-P1-K1-F5
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
                  597
BLAST score
                  4.0e-62
E value
                  126
Match length
                  89
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145037
Seq. No.
                  LIB3168-053-P1-K1-F6
Seq. ID
                  BLASTN
Method
                  g2358139
NCBI GI
BLAST score
                  98
                  1.0e-47
E value
                  98
Match length
% identity
                  100
                  Arabidopsis thaliana chromosome 1 YAC yUP8H12 complete
NCBI Description
                  sequence [Arabidopsis thaliana]
                  145038
Seq. No.
                  LIB3168-053-P1-K1-F8
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  348
                  4.0e-33
E value
                  73
Match length
                  93
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145039
Seq. No.
                  LIB3168-053-P1-K1-F9
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
                  44
BLAST score
                  6.0e-39
E value
                  96
Match length
                  91
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145040
                  LIB3168-053-P1-K1-G1
Seq. ID
                  BLASTX
Method
                  g1628583
```

Seq. No.

145045

```
BLAST score
                  712
                  1.0e-75
E value
Match length
                  140
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145041
Seq. No.
                  LIB3168-053-P1-K1-G10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  740
                  8.0e-79
E value
                  141
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                 cruciferin seed storage protein [Arabidopsis thaliana]
                  145042
Seq. No.
                  LIB3168-053-P1-K1-G11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3335171
                  605
BLAST score
E value
                  5.0e-63
Match length
                  141
% identity
                  (AF067858) embryo-specific protein 3 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145043
                  LIB3168-053-P1-K1-G2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2499606
BLAST score
                  435
                  5.0e-43
E value
                  102
Match length
% identity
                  82
                  MITOGEN-ACTIVATED PROTEIN KINASE HOMOLOG 2 (MAP KINASE 2)
NCBI Description
                  (ATMPK2) >gi_533281_dbj_BAA03536_ (D14714) ATMPK2
                  [Arabidopsis thaliana]
                  145044
Seq. No.
                  LIB3168-053-P1-K1-G3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  667
                  3.0e-70
E value
Match length
                  146
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
```

Seq. ID Method

```
LIB3168-053-P1-K1-G4
Seq. ID
                  BLASTX
Method
                  g112741
NCBI GI
                  296
BLAST score
                  3.0e-73
E value
                  137
Match length
                  95
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  145046
Seq. No.
                  LIB3168-053-P1-K1-G5
Seq. ID
Method
                  BLASTN
                  g3650026
NCBI GI
BLAST score
                  185
                  1.0e-99
E value
                  272
Match length
                  99
% identity
                  Arabidopsis thaliana chromosome II BAC T26I20 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145047
Seq. ID
                  LIB3168-053-P1-K1-G6
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  614
                  4.0e-64
E value
Match length
                  119
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145048
                  LIB3168-053-P1-K1-G7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112737
BLAST score
                  580
E value
                  4.0e-60
                  139
Match length
                  81
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145049
Seq. No.
```

LIB3168-053-P1-K1-G8

BLASTX

```
g112682
NCBI GI
                  609
BLAST score
                 .2.0e-63
E value
Match length
                  140
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145050
Seq. No.
                  LIB3168-053-P1-K1-G9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
                  586
BLAST score
                  9.0e-61
E value
                  138
Match length
% identity
                  81
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145051
Seq. No.
                  LIB3168-053-P1-K1-H1
Seq. ID
                  BLASTN
Method
                  q3298610
NCBI GI
                  411
BLAST score
E value
                  0.0e + 00
                  439
Match length
                  99
% identity
                  Arabidopsis thaliana BAC T2H3
NCBI Description
                   145052
Seq. No.
Seq. ID
                  LIB3168-053-P1-K1-H10
                  BLASTX
Method
                   q3341697
NCBI GI
                   360
BLAST score
                   3.0e-34
E value
Match length
                   95
% identity
                   (AC003672) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   145053
Seq. No.
Seq. ID
                   LIB3168-053-P1-K1-H11
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   577
                   1.0e-59
E value
Match length
                   143
% identity
                   80
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
145054
Seq. No.
                  LIB3168-053-P1-K1-H12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  550
                  1.0e-56
E value
                  136
Match length
                  80
% identity '
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145055
Seq. No.
                  LIB3168-053-P1-K1-H2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  631
                  5.0e-66
E value
                  144
Match length
                  85
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145056
                  LIB3168-053-P1-K1-H4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
                  595
BLAST score
                  6.0e-62
E value
                  109
Match length
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145057
                  LIB3168-053-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  507
                  2.0e-51
E value
Match length
                  93
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868_
```

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

NCBI Description

```
precursor [Arabidopsis thaliana]
Seq. No.
                  145058
                  LIB3168-053-P1-K1-H6
Seq. ID
                  BLASTX
Method
                  g1107501
NCBI GI
                  384
BLAST score
E value
                  4.0e-37
                  140
Match length
% identity
                  58
NCBI Description
                   (X91954) orf [Arabidopsis thaliana] >gi_3367530 (AC004392)
                  Match to gb_X91954 orf gene product from A. thaliana. ESTs
                  gb_Z17604, gb_H76594, gb_AA597972 and gb_AA394824 come from
                  this gene. [Arabidopsis thaliana]
                  145059
Seq. No.
                  LIB3168-053-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3335171
BLAST score
                  523
E value
                  2.0e-53
Match length
                  122
                  84
% identity
                  (AF067858) embryo-specific protein 3 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145060
                  LIB3168-053-P1-K1-H9
Seq. ID
Method
                  BLASTN
                  g2351067
NCBI GI
BLAST score
                  276
E value
                  1.0e-154
Match length
                  348
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MPO12, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145061
                  LIB3168-054-P1-K1-A1
Seq. ID
Method
                  BLASTN
                  q4678315
NCBI GI
BLAST score
                  164
                  2.0e-87
E value
                  180
Match length
                  98
% identity
                  Arabidopsis thaliana DNA chromosome 3, BAC clone
NCBI Description
                   (ESSA project)
Seq. No.
                  145062
                  LIB3168-054-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score .
                  585
                  1.0e-60
E value
                  117
Match length
% identity
```

>gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3

(U66916) 12S cruciferin seed storage protein [Arabidopsis

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]
```

145063 Seq. No. LIB3168-054-P1-K1-A2 Seq. ID BLASTX Method NCBI GI g112681 548 BLAST score E value 2.0e-56 113 Match length 97 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana]  $>gi_808936_emb_CAA32493_ (X14312) 12S seed$ storage protein [Arabidopsis thaliana] 145064 Seq. No. Seq. ID LIB3168-054-P1-K1-A3 Method BLASTN NCBI GI q3927822 BLAST score 110 E value 2.0e-55 Match length 122 % identity 98 Arabidopsis thaliana chromosome II BAC F8N16 genomic NCBI Description sequence, complete sequence [Arabidopsis thaliana] 145065 Seq. No. LIB3168-054-P1-K1-A4 Seq. ID Method BLASTX g1628583 NCBI GI BLAST score 379 E value 1.0e-36 Match length 108 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 145066 Seq. ID LIB3168-054-P1-K1-A5 Method BLASTX NCBI GI g112682 BLAST score 578 E value 7.0e-60 Match length 137 % identity NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir \_\_S08510 cruciferin precursor (CRB) - Arabidopsis thaliana >gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana]

Seq. No. 145067

Seq. ID LIB3168-054-P1-K1-A6

Method BLASTX

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```
q1628583
NCBI GI
                   494
BLAST score
                   3.0e-50
E value
Match length
                   96
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145068
Seq. No.
Seq. ID
                   LIB3168-054-P1-K1-A7
Method
                   BLASTX
                   q1628583
NCBI GI
                   546
BLAST score
E value
                   3.0e-56
                   104
Match length
                   99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145069
Seq. ID
                   LIB3168-054-P1-K1-A8
Method
                   BLASTN
NCBI GI
                   q1468974
BLAST score
                   251
                   1.0e-139
E value
Match length
                   275
                   98
% identity
                   Arabidopsis thaliana blue light photoreceptor/photolyase
NCBI Description
                   homolog (PHH1) mRNA, complete cds
Seq. No.
                   145070
                   LIB3168-054-P1-K1-A9
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   362
                   6.0e-35
E value
                   79
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145071
Seq. No.
                   LIB3168-054-P1-K1-B1
Seq. ID
Method
                   BLASTX
                   g112682
NCBI GI
BLAST score
                   730
                   1.0e-77
E value
Match length
                   142
                   99
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

Seq. ID Method

```
Seq. No.
                  145072
                  LIB3168-054-P1-K1-B10
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
                  369
BLAST score
                  1.0e-35
E value
                  90
Match length
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145073
Seq. No.
                  LIB3168-054-P1-K1-B11
Seq. ID
                  BLASTX
Method
                  g3273743
NCBI GI
                  526
BLAST score
                  7.0e-54
E value
Match length
                  105
                  96
% identity
                  (AF057357) lipid transfer protein 2 precursor [Arabidopsis
NCBI Description
                  thaliana] >gi_3786019 (AC005499) unknown protein
                  [Arabidopsis thaliana]
Seq. No.
                  145074
                  LIB3168-054-P1-K1-B2
Seq. ID
Method
                  BLASTX
                  g3786017
NCBI GI
BLAST score
                  432
E value
                  5.0e-43
                  84
Match length
                  100
% identity
                  (AC005499) putative non-green plastid inner envelope
NCBI Description
                  membrane protein [Arabidopsis thaliana]
Seq. No.
                  145075
                  LIB3168-054-P1-K1-B4
Seq. ID
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  561
                  7.0e-58
E value
                  137
Match length
                  80
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                precursor [Arabidopsis thaliana]
                  145076
Seq. No.
```

LIB3168-054-P1-K1-B5

BLASTN

```
g1592685
NCBI GI
BLAST score
                  74
E value
                  2.0e-33
Match length
                  102
% identity
                  94
NCBI Description A.thaliana mRNA for oleosin type4 protein
                  145077
Seq. No.
                  LIB3168-054-P1-K1-B6 -
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  350
E value
                  1.0e-33
Match length
                  66
                  97
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145078
Seq. No.
                  LIB3168-054-P1-K1-B7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g1628582
BLAST score
                  169
                  2.0e-90
E value
Match length
                  225
                  97
% identity
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                  (ATCRU3) gene, complete cds
                  145079
Seq. No.
                  LIB3168-054-P1-K1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  415
E value
                  4.0e-41
Match length
                  79
                  99
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145080
Seq. ID
                  LIB3168-054-P1-K1-B9
Method .
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  440
E value
                  6.0e-44
Match length
                  92
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
145081
Seq. No.
                  LIB3168-054-P1-K1-C1
Seq. ID
                  BLASTX
Method
                  g1363488
NCBI GI
                  384
BLAST score
                  3.0e-37
E value
                  80
Match length
                  95
% identity
                  IAA8 protein - Arabidopsis thaliana >gi_972919 (U18410)
NCBI Description
                  IAA8 [Arabidopsis thaliana] >gi 4314364 gb AAD15575
                  (AC006340) auxin-induced IAA8 protein [Arabidopsis
                  thaliana]
                  145082
Seq. No.
                  LIB3168-054-P1-K1-C10
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112682
                  664 .
BLAST score
                  6.0e-70
E value
                  135
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145083
Seq. No.
                  LIB3168-054-P1-K1-C11
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
                  470
BLAST score
                  3.0e-47 ·
E value
                  131 -
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_ S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{\text{liana}} >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145084
                  LIB3168-054-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  660
E value
                  2.0e-69
                  127
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__$08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
```

storage protein [Arabidopsis thaliana]

thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

```
145085
Seq. No.
                  LIB3168-054-P1-K1-C4
Seq. ID
Method
                  BLASTN
NCBI GI
                   q4589408
BLAST score
                   408
                   0.0e+00
E value
                   420
Match length
                   99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                   F14A1, complete sequence
                   145086
Seq. No.
                   LIB3168-054-P1-K1-C6
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   451
E value
                   3.0e-45
Match length
                   88
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145087
                   LIB3168-054-P1-K1-C7
Seq. ID
Method
                   BLASTX
NCBI GI
                   q2160151
BLAST score
                   333
E value
                   2.0e-31
Match length
                   84
% identity
                   (AC000375) Strong similarity to Brassica aspartic protease
NCBI Description
                   (gb_X77260). [Arabidopsis thaliana]
                   145088
Seq. No.
Seq. ID
                   LIB3168-054-P1-K1-C9
Method
                   BLASTX
                   g131529
NCBI GI
BLAST score
                   75
E value -
                   5.2e-01
Match length
                  80
% identity
                   22
                  POLYPYRIMIDINE TRACT-BINDING PROTEIN (PTB) (HETEROGENEOUS
NCBI Description
                   NUCLEAR RIBONUCLEOPROTEIN I) (HNRNP I)
                   >gi_53553_emb_CAA36321_ (X52101) 25kDa nuclear protein [Mus
                  musculus]
                   145089
Seq. No.
Seq. ID
                  LIB3168-054-P1-K1-D10
Method
                  BLASTX
NCBI ĞI
                   g3688175
BLAST score
                   540
E value
                   2.0e-55
Match length
                  124
% identity
NCBI Description
                   (ALO31804) gamma-VPE (vacuolar processing enzyme)
```

```
[Arabidopsis thaliana]
Seq. No.
                   145090
Seq. ID
                   LIB3168-054-P1-K1-D11
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   515
E value
                   2.0e-52
Match length
                   138
% identity
                   78
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145091
Seq. No.
Seq. ID
                   LIB3168-054-P1-K1-D2
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   636
E value
                   1.0e-66
Match length
                   123
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145092
Seq. ID
                   LIB3168-054-P1-K1-D3
Method
                   BLASTX
NCBI GI
                   q112741
BLAST score
                   530
E value
                   3.0e-54
Match length
                   113
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   145093
Seq. ID
                   LIB3168-054-P1-K1-D6
Method
                   BLASTX
NCBI GI
                   q2160146
BLAST score
                   309
E value
                   2.0e-28
Match length
                   113
% identity
                   (AC000375) Strong similarity to Arabidopsis gb_X91953,F21M12.3,F21M12.1. EST gb_H36326 comes from this
NCBI Description
```

Seq. No. 145094

gene. [Arabidopsis thaliana]

```
LIB3168-054-P1-K1-D7
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  433
BLAST score
E value
                  3.0e-43
                  86
Match length
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145095
Seq. No.
Seq. ID
                  LIB3168-054-P1-K1-D8
Method
                  BLASTX
                  g112682
NCBI GI
                  621
BLAST score
                  6.0e-65
E value
                  132
Match length
                  88
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145096
Seq. ID
                  LIB3168-054-P1-K1-E1
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  611
                  1.0e-63
E value
                  127
Match length
                  91
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145097
Seq. No.
                  LIB3168-054-P1-K1-E10
Seq. ID
Method
                  BLASTX
                  q1065515
NCBI GI
BLAST score
                  141
                  6.0e-09
E value
                  77
Match length
                  39
% identity
                  (U40420) weak similarity to procollagen alpha chain 1(V)
NCBI Description
                  chain [Caenorhabditis elegans]
                  145098
Seq. No.
                  LIB3168-054-P1-K1-E11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2264313
```

34

BLAST score

```
E value
                  2.0e-09
Match length
                  94
                  84
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MOP10, complete sequence [Arabidopsis thaliana]
                  145099
Seq. No.
                  LIB3168-054-P1-K1-E12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4220640
                  41
BLAST score
                  6.0e-14
E value
                  85
Match length
                  87
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MPE11, complete sequence [Arabidopsis thaliana]
                  145100
Seq. No.
                  LIB3168-054-P1-K1-E2
Seq. ID
Method
                  BLASTX
                  g464987
NCBI GI
BLAST score
                  591
                  2.0e-61
E value
                  114
Match length
                  97
% identity
                  UBIQUITIN-CONJUGATING ENZYME E2-17 KD 10 (UBIQUITIN-PROTEIN
NCBI Description
                  LIGASE 10) (UBIQUITIN CARRIER PROTEIN 10)
                  >gi_421858_pir__S32672 ubiquitin--protein ligase (EC
                  6.3.2.19) UBC10 - Arabidopsis thaliana
                  >gi_297878_emb_CAA78715_ (Z14991) ubiquitin conjugating
                  enzyme [Arabidopsis thaliana] >gi 349213 (L00640) ubiquitin
                  conjugating enzyme [Arabidopsis thaliana]
Seq. No.
                  145101
                  LIB3168-054-P1-K1-E4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  90
E value
                  4.0e-43
                  146
Match length
                  90
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                   (ESSAII project)
                  145102
Seq. No.
                  LIB3168-054-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  327
E value
                  9.0e-31
                  79<sub>91</sub>
Match length
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{1}iana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
```

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  145103
                  LIB3168-054-P1-K1-E6
Seq. ID
                  BLASTX
Method
                  q1628583
NCBI GI
BLAST score
                  607
                  3.0e-63
E value
                  135
Match length
                  88
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145104
                  LIB3168-054-P1-K1-E8
Seq. ID
                  BLASTX
Method
                  g4204271
NCBI GI
BLAST score
                  242
                  2.0e-20
E value
                  46
Match length
                  96
% identity
NCBI Description
                  (AC005223) Unknown protein [Arabidopsis thaliana]
                  145105
Seq. No.
                  LIB3168-054-P1-K1-E9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
                  560
BLAST score
                  8.0e-58
E value
                  128
Match length
                  85
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145106
                  LIB3168-054-P1-K1-F1
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  644
                  1.0e-67
E value
Match length
                  137
                  92
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145107
Seq. No.
                  LIB3168-054-P1-K1-F10
Seq. ID
                  BLASTX
Method
NCBI GI
                  q4204298
BLAST score
                  385
                  2.0e-37
E value
                  93
Match length
                  80
% identity
```

```
(AC003027) lcl_prt_seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
                  145108
Seg. No.
                  LIB3168-054-P1-K1-F3
Seq. ID
                  BLASTN
Method
                  q16131
NCBI GI
BLAST score
                  125
                  3.0e-64
E value
                  153
Match length
                  95
% identity
                  Arabidopsis thaliana genes for 5.8S rRNA and 25S rRNA with
NCBI Description
                  18S rRNA fragment
Seq. No.
                  145109
                  LIB3168-054-P1-K1-F4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g166570
                  178
BLAST score
                  3.0e-13
E value
                  68
Match length
                  54
% identity
NCBI Description
                  (L04173) glycine rich protein [Arabidopsis thaliana]
Seq. No.
                  145110
                  LIB3168-054-P1-K1-F5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3758832
BLAST score
                  42
                  2.0e-14
E value
Match length
                  70
                  90
% identity
                  Medicago truncatula mRNA for MtN6 gene
NCBI Description
Seq. No.
                  145111
                  LIB3168-054-P1-K1-F6
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3046852
BLAST score
                  186
E value
                  1.0e-100
Match length
                  253
% identity ....
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MQJ16, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145112
                  LIB3168-054-P1-K1-F7
Seq. ID
Method
                  BLASTX
                  g4138179
NCBI GI
BLAST score
                  246
                  2.0e-21
E value
Match length
                  52
% identity
                  92
                  (AJ223969) elongation factor 1 alpha subunit [Malus
NCBI Description
                  domestica]
```

145113

Seq. No.

...

```
Seq. ID
                  LIB3168-054-P1-K1-F8
Method
                  BLASTX
                  g1628583
NCBI GI
                  374
BLAST score
                  4.0e-36
E value
                  106
Match length
                  73
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145114
                  LIB3168-054-P1-K1-F9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  542
                  1.0e-55
E value
Match length
                  137
% identity
                  78
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145115
                  LIB3168-054-P1-K1-G1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  713
                  1.0e-75
E value
Match length
                  136
% identity
                  99
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145116
                  LIB3168-054-P1-K1-G10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  643
E value
                  1.0e-67
                  125
Match length
                  98
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145117
Seq. ID
                  LIB3168-054-P1-K1-G11
Method
                  BLASTX
NCBI GI
                  q4191814
BLAST score
                  233
E value
                  2.0e-19
Match length
                  137
                  36
% identity
                  (AB008680) alpha' subunit of beta-conglycinin [Glycine max]
NCBI Description
```

```
145118
Seq. No.
                  LIB3168-054-P1-K1-G2
Seq. ID
Method
                  BLASTN-
NCBI GI
                  g438450
                  68
BLAST score
E value
                  8.0e-30
                  148
Match length
% identity
NCBI Description
                  Arabidopsis thaliana delta-12 desaturase (Fad2) mRNA,
                  complete cds
Seq. No.
                  145119
                  LIB3168-054-P1-K1-G3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  554
                  5.0e-57
E value
Match length
                  134
                  81
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145120
Seq. No.
Seq. ID
                  LIB3168-054-P1-K1-G4
Method
                  BLASTN
NCBI GI
                  g2924257
BLAST score
                  48
                  3.0e-18
E value
Match length
                  130
                  91
% identity
NCBI Description
                  Tobacco chloroplast genome DNA
Seq. No.
                  145121
                  LIB3168-054-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  509
E value
                  7.0e-52
Match length
                  111
                  86
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145122
Seq. ID
                  LIB3168-054-P1-K1-G6
                  BLASTX
Method
                  g112681
NCBI GI
                  703
BLAST score
                  2.0e-74
E value
```

```
135
Match length
                   97
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145123
Seq. No.
                   LIB3168-054-P1-K1-G7
Seq. ID
                   BLASTX
Method
                   g2160146
NCBI GI
BLAST score
                   427
                   3.0e-42
E value
                   104
Match length
                   85
% identity
                    (AC000375) Strong similarity to Arabidopsis
NCBI Description
                   gb_X91953,F21M12.3,F21M12.1. EST gb_H36326 comes from this
                   gene. [Arabidopsis thaliana]
                   145124
Seq. No.
                   LIB3168-054-P1-K1-G8
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112741
BLAST score
                   362
                   1.0e-34
E value
Match length
                   67
% identity
                   100 .
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                    (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
                   145125
Seq. No.
                   LIB3168-054-P1-K1-G9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3258637
BLAST score
                   287
                   9.0e-26
E value
Match length
                   104
% identity
                   59
                    (AF041050) 4-coumarate:CoA ligase [Populus tremuloides]
NCBI Description
                   145126
Seq. No.
Seq. ID
                   LIB3168-054-P1-K1-H1
Method
                   BLASTX
                   g1172873
NCBI GI
BLAST score
                   577
                   8.0e-60
E value
Match length
                   115
% identity
                   CYSTEINE PROTEINASE RD21A PRECURSOR >gi_541857_pir__JN0719 drought-inducible cysteine proteinase (EC 3.4.22.-) RD21A
NCBI Description
```

precursor - Arabidopsis thaliana >gi\_435619\_dbj\_BAA02374\_

## (D13043) thiol protease [Arabidopsis thaliana] 145127 Seq. No. LIB3168-054-P1-K1-H11 Seq. ID Method BLASTN NCBI GI g4757414 394 BLAST score 0.0e + 00E value Match length 406 % identity 99 NCBI Description Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone: MYF24, complete sequence 145128 Seq. No. LIB3168-054-P1-K1-H2 Seq. ID Method BLASTX g1628583 NCBI GI BLAST score 472 1.0e-47 E value 103 Match length 92 % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 145129 Seq. No. Seq. ID LIB3168-054-P1-K1-H3 Method BLASTN g3510347 NCBI GI 193 BLAST score 1.0e-104 E value Match length 328 99 % identity Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone: NCBI Description MSJ11, complete sequence [Arabidopsis thaliana] Seq. No. 145130 Seq. ID LIB3168-054-P1-K1-H4 BLASTX Method NCBI GI q1628583 BLAST score 510 6.0e-52 E value Match length 111 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 145131 Seq. ID LIB3168-054-P1-K1-H6 Method BLASTX NCBI GI g2129657 BLAST score 290 E value 4.0e-26 90 Match length

oleosin isoform - Arabidopsis thaliana

69

% identity

NCBI Description

Seq. ID

```
145132
Seq. No.
                   LIB3168-054-P1-K1-H8
Seq. ID
                   BLASTX
Method
                   g112737
NCBI GI
                   507
BLAST score
                   2.0e-51
E value
Match length
                   133
                   77
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   145133
Seq. No.
                   LIB3168-054-P1-K1-H9
Seq. ID
Method
                   BLASTX
                   g4204299
NCBI GI
                   625
BLAST score
                   2.0e-65
E value
                   121
Match length
% identity:
                    (AC003027) lcl_prt_seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
                   145134
Seq. No.
                   LIB3168-055-P1-K1-A10
Seq. ID
Method
                   BLASTX
                   g2129657
NCBI GI
                   213
BLAST score
                   4.0e-17
E value
                   75
Match length
% identity
                   63
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
                   145135
Seq. No.
                   LIB3168-055-P1-K1-A11
Seq. ID
Method
                   BLASTN
NCBI GI
                   g4159712
BLAST score
                   309
                   1.0e-173
E value
Match length
                   333
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MWI23, complete sequence
Seq. No.
                   145136
```

>gi 987014\_emb CAA90877\_ (Z54164) oleosin [Arabidopsis
thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin

[Arabidopsis thaliana]

LIB3168-055-P1-K1-A12

```
Method
                   BLASTX
NCBI GI
                   g4263771
BLAST score
                   293
                   2.0e-26
E value
                   72
Match length
                   72
% identity
                   (AC006218) putative nonspecific lipid-transfer protein
NCBI Description
                   precursor [Arabidopsis thaliana]
                   >gi 4726121 gb AAD28321.1_AC006436_12 (AC006436) putative
                   nonspecific lipid-transfer protein precursor [Arabidopsis
                   thaliana]
                   145137
Seq. No.
                   LIB3168-055-P1-K1-A2
Seq. ID
                   BLASTX
Method
NCBI GI
                   q1628583
                   499
BLAST score
E value
                   1.0e-50
                   98
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145138
                   LIB3168-055-P1-K1-A3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2983690
BLAST score
                   144
                   4.0e-09
E value
                   96
Match length
% identity
                   (AE000730) hypothetical protein [Aquifex aeolicus]
NCBI Description
                   145139
Seq. No.
                   LIB3168-055-P1-K1-A4
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2129657
BLAST score
                   182
                   9.0e-14
E value
                   70
Match length
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi 987014 emb CAA90877 (Z54164) oleosin [Arabidopsis
thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                   [Arabidopsis thaliana]
                   145140
Seq. No.
                   LIB3168-055-P1-K1-A5
Seq. ID
Method
                   BLASTX
                   g112739
NCBI GI
BLAST score
                   338
                   8.0e-32
E value
                   105
Match length
                   67
% identity
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
```

```
Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871_
(Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
>qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
precursor [Arabidopsis thaliana]
```

```
Seq. No.
                   145141
                   LIB3168-055-P1-K1-A6
Seq. ID
                   BLASTX
Method
NCBI GI
                   g552956
BLAST score
                   346
                   8.0e-33
E value
```

77 Match length % identity

(M10124) ATPase subunit I [Nicotiana tabacum] NCBI Description >gi 224351 prf 1102209E ORF 5 [Nicotiana sp.]

Seq. No. 145142

LIB3168-055-P1-K1-A7 Seq. ID

Method BLASTX NCBI GI g112682 BLAST score 696 E value 1.0e-73 Match length 147 90 % identity

12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510 NCBI Description

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 145143

Seq. ID LIB3168-055-P1-K1-A8

Method BLASTX NCBI GI g2129657 BLAST score 149 5.0e-10 E value 72 Match length

% identity 50

NCBI Description oleosin isoform - Arabidopsis thaliana

>gi\_987014\_emb\_CAA90877\_ (Z54164) oleosin [Arabidopsis thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin

[Arabidopsis thaliana]

Seq. No. 145144

LIB3168-055-P1-K1-A9 Seq. ID

Method BLASTX NCBI GI g1628583 BLAST score 387 9.0e-38 E value 89 Match length % identity

(U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

145145 Seq. No.

```
Seq. ID
                     LIB3168-055-P1-K1-B1
Method
                     BLASTX
NCBI GI
                     q131276
BLAST score
                     591
                     2.0e-61
E value
                     128
Match length
                     89
% identity
NCBI Description
                     PHOTOSYSTEM II P680 CHLOROPHYLL A APOPROTEIN (CP-47
                     PROTEIN) >gi_72704_pir__QJNT6A photosystem II chlorophyll a-binding protein psbB - common tobacco chloroplast
                     >gi 11856_emb_CAA77373_ (Z00044) PSII 47kD protein
[Nicotiana tabacum] >gi_225224_prf__1211235BF photosystem
                     II P680 apoprotein [Nicotiana tabacum]
Seq. No.
                     145146
Seq. ID
                     LIB3168-055-P1-K1-B10
Method
                     BLASTN
NCBI GI
                     g2642152
BLAST score
                     342
E value
                     0.0e + 00
Match length
                     362
                     99
% identity
                     Arabidopsis thaliana chromosome II BAC T517 genomic
NCBI Description
                     sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                     145147
                     LIB3168-055-P1-K1-B11
Seq. ID
Method
                     BLASTX
NCBI GI
                     g4741962
BLAST score
                     240
E value
                     2.0e-20
Match length
                     63
% identity
NCBI Description
                     (AF134131) PsbS protein [Arabidopsis thaliana]
Seq. No.
                     145148
Seq. ID
                     LIB3168-055-P1-K1-B12
Method
                     BLASTX
NCBI GI
                     q2129657
BLAST score
                     140
E value
                     5.0e-09
                     30
Match length
                     83
% identity
NCBI Description
                     oleosin isoform - Arabidopsis thaliana
                     >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                     [Arabidopsis thaliana]
Seq. No.
                     145149
                     LIB3168-055-P1-K1-B2
Seq. ID
Method
                     BLASTX
NCBI GI
                     g2244749
                     563
BLAST score
E value
                     4.0e-58
Match length
                     106
% identity
                     100
NCBI Description
                     (Z97335) hydroxymethyltransferase [Arabidopsis thaliana]
```

```
145150
Seq. No.
Seq. ID
                  LIB3168-055-P1-K1-B3
Method
                  BLASTN
NCBI GI
                  g2244747
BLAST score
                  64
                  1.0e-27
E value
Match length
                  191
% identity
                  87
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
                  fragment No
                  145151
Seq. No.
Seq. ID
                  LIB3168-055-P1-K1-B4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  629
                  6.0e-66
E value
                  122
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145152
Seq. ID
                  LIB3168-055-P1-K1-B5
Method
                  BLASTN
                  q2645198
NCBI GI
                  379
BLAST score
                  0.0e + 00
E value
Match length
                  395
% identity
                  Arabidopsis thaliana chromosome I BAC T26J12 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  145153
Seq. No.
Seq. ID
                  LIB3168-055-P1-K1-B6
Method
                  BLASTN
                  a4388816
NCBI GI
                  177
BLAST score
                   6.0e-95
E value
Match length
                  349
                  97
% identity
                  Arabidopsis thaliana chromosome II BAC F9B22 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  145154
Seq. No.
Seq. ID
                  LIB3168-055-P1-K1-B7
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  455
E value
                  1.0e-45
Match length
                  114
                  77
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
```

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit

```
>qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145155
Seq. No.
                  LIB3168-055-P1-K1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204298
BLAST score
                  271
E value
                  2.0e-24
Match length
                  65
% identity
                  78
NCBI Description
                   (AC003027) 1cl prt seq No definition line found
                  [Arabidopsis thaliana]
                  145156
Seq. No.
                  LIB3168-055-P1-K1-B9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2146735
BLAST score
                  271
                  7.0e-24
E value
Match length
                  52
% identity
                  qlucose-6-phosphate 1-dehydrogenase (EC 1.1.1.49) (clone
NCBI Description
                  E5) - Arabidopsis thaliana (fragment)
                  >gi_1166405_emb_CAA59011_ (X84229) glucose-6-phosphate
                  1-dehydrogenase [Arabidopsis thaliana]
                  145157
Seq. No.
Seq. ID
                  LIB3168-055-P1-K1-C11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  528
                  5.0e-54
E value
Match length
                  114
% identity
                  90
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145158
Seq. ID
                  LIB3168-055-P1-K1-C12
Method
                  BLASTN
NCBI GI
                  q2924505
BLAST score
                  307
E value
                  1.0e-172
Match length
                  336
% identity
                  97
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone M4E13
                   (ESSAII project)
Seq. No.
                  145159
                  LIB3168-055-P1-K1-C2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3510344
BLAST score
                  218
```

1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870\_

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]

```
1.0e-119
E value
Match length
                  349
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MJG14, complete sequence [Arabidopsis thaliana]
                  145160
Seq. No.
                  LIB3168-055-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  516
E value
                  1.0e-52
Match length
                  132
                  78
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145161
                  LIB3168-055-P1-K1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  43
                  7.0e-18
E value
Match length
                  65
                  77
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145162
                  LIB3168-055-P1-K1-C5
Seq. ID
Method
                  BLASTN
                  g4512656
NCBI GI
BLAST score
                  92
                  3.0e-44
E value
                  278
Match length
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F7D19 genomic
                  sequence, complete sequence
Seq. No.
                  145163
                  LIB3168-055-P1-K1-C6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g231586
BLAST score
                  156
                  2.0e-10
E value
Match length
                  77
% identity
                  49
                  ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR
NCBI Description
                  >gi_82027_pir__S20504 H+-transporting ATP synthase (EC
                  3.6.1.34) beta chain, mitochondrial - Para rubber tree
```

>gi\_18831\_emb\_CAA41401\_ (X58498) mitochondrial ATP synthase

NCBI GI

g112681

## beta-subunit [Hevea brasiliensis]

```
Seq. No.
                     145164
Seq. ID
                     LIB3168-055-P1-K1-C7
Method
                     BLASTX
NCBI GI
                     g131375
                     144
BLAST score
                     5.0e-09
E value
Match length
                     26
                     100
% identity
NCBI Description
                     PHOTOSYSTEM II REACTION CENTRE N PROTEIN
                     >gi_72720_pir__F2RZN photosystem II protein psbN - rice
                     chloroplast >gi_82632_pir__S14142 photosystem II protein
                     psbN - wheat chloroplast >gi_100123_pir__S12130 photosystem
                     II protein psbN - Appalachian evening primrose chloroplast
                     >gi_100737_pir__JN0417 photosystem II protein psbN - rye
                     chloroplast >gi_485419_pir__S12133 photosystem II protein
                     psbN - Hooker's evening primrose chloroplast
                     >gi_1363584_pir__S58579 photosystem II protein psbN - maize
chloroplast >gi_11208_emb_CAA39389_ (X55899) psbN product,
                     unknown protein [Oenothera argillicola]
                     >gi_12015_emb_CAA33975_ (X15901) PSII low MW protein [Oryza
                     satīva] >gi_12359_emb_CAA38543 (X54749) photosystem II
polypeptide [Triticum aestivum] >gi_14148_emb_CAA39392_
                     (X55900) psbN product, unknown protein [Oenothera elata
                     subsp. hookeri] >gi_902249_emb_CAA60313_ (X86563) PSII low
                     MW protein [Zea mays] >gi_\(\overline{2}\)143\(\overline{3}\)25_emb_\(\overline{CAA73767}\) (Y13328)
PSII subunit [Populus deltoides] >gi_\(\overline{2}\)26637_prf__1603356BL
                     photosystem II low MW protein [Oryza sativa]
                     145165
Seq. No.
                     LIB3168-055-P1-K1-C8
Seq. ID
Method
                     BLASTX
NCBI GI
                     g1628583
BLAST score
                     477
                     7.0e-58
E value
Match length
                     118
% identity
                     (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                     thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                     cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                     145166
                     LIB3168-055-P1-K1-C9
Seq. ID
Method
                     BLASTN
                     g1526561
NCBI GI
BLAST score
                     35
E value
                     3.0e-10
                     47
Match length
% identity
                     Raphanus sativus mRNA for glutamine synthetase, complete
NCBI Description
                     cds
Seq. No.
                     145167
                     LIB3168-055-P1-K1-D10
Seq. ID
Method
                     BLASTX
```

```
BLAST score
                  342
                  1.0e-32
E value
                  81
Match length
% identity
                  85
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145168
                  LIB3168-055-P1-K1-D11
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  505
                  2.0e-51
E value
                  98
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145169
Seq. No.
                  LIB3168-055-P1-K1-D3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2605714
BLAST score
                  338
E value
                  6.0e-32
Match length
                  65
% identity
                  100
                   (AF026275) beta-tonoplast intrinsic protein [Arabidopsis
NCBI Description
                  thaliana]
                  145170
Seq. No.
Seq. ID
                  LIB3168-055-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  g2894574
BLAST score
                  538
E value
                  3.0e-55
Match length
                  102
                  100
% identity
                  (AL021890) peroxidase prxrl [Arabidopsis thaliana]
NCBI Description
                  >gi 2961341 emb CAA18099.1 (AL022140) peroxidase prxr1
                  [Arabidopsis thaliana]
                  145171
Seq. No.
                  LIB3168-055-P1-K1-D7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  361
E value
                  7.0e-35
                  77
Match length
                  94
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

45

```
145172
Seq. No.
                  LIB3168-055-P1-K1-D8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
                  333
BLAST score
E value
                  3.0e - 31
                  104
Match length
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145173
                  LIB3168-055-P1-K1-D9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3036819
BLAST score
                  410
E value
                  3.0e-40
Match length
                  115
                  77
% identity
NCBI Description
                 (AJ000058) MCM3 homolog [Arabidopsis thaliana]
Seq. No.
                  145174
                  LIB3168-055-P1-K1-E10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  64
E value
                  4.0e-13
Match length
                  59
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145175
Seq. No.
                  LIB3168-055-P1-K1-E11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  282
E value
                  3.0e-25
Match length
                  55
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145176
Seq. No.
                  LIB3168-055-P1-K1-E12
Seq. ID
Method
                  BLASTN
                  g2842474
NCBI GI
BLAST score
                  53
E value
```

5.0e-21

Match length

```
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                   (ESSAII project)
                  145177
Seq. No.
                  LIB3168-055-P1-K1-E2
Seq. ID
Method
                  BLASTX
                  q3169182
NCBI GI
BLAST score
                  394
                  2.0e-38
E value
Match length
                  78
% identity
                   (AC004401) unknown protein [Arabidopsis thaliana]
NCBI Description
                  145178
Seq. No.
                  LIB3168-055-P1-K1-E3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3128211
BLAST score
                  434
E value
                  5.0e-43
Match length
                  113
                  71
% identity ·
                   (AC004077) putative cytochrome p450 protein [Arabidopsis
NCBI Description
                  thaliana] >gi_3337377 (AC004481) putative cytochrome P450
                  protein [Arabidopsis thaliana]
Seq. No.
                  145179
Seq. ID
                  LIB3168-055-P1-K1-E4
Method
                  BLASTN'
                  q4662640
NCBI GI
BLAST score
                  96
E value
                  1.0e-46
Match length
                  174
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F15K19 genomic
                  sequence, complete sequence
Seq. No.
                  145180
                  LIB3168-055-P1-K1-E5
Seq. ID
Method
                  BLASTN
                  g3133272
NCBI GI
BLAST score
                  22
E value
                  1.5e-02
Match length
                  428
                  32
% identity
NCBI Description
                  Genomic sequence for Arabidopsis thaliana BAC T17H7,
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  145181
                  LIB3168-055-P1-K1-E6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  333
                  1.0e-31
E value
                  66
Match length
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]
```

```
145182
Seq. No.
                  LIB3168-055-P1-K1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  594
E value
                  7.0e-62
Match length
                  114
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145183
Seq. No.
                  LIB3168-055-P1-K1-E8
Seq. ID
Method
                  BLASTX
                  g112741
NCBI GI
BLAST score
                  565
E value
                  5.0e-58
Match length
                  112
                  99
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  145184
Seq. No.
                  LIB3168-055-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  566
E value
                  2.0e-58
Match length
                  119
                  96
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145185
                  LIB3168-055-P1-K1-F1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g132110
BLAST score
                  534
                  7.0e-55
E value
Match length
                  107
                  91
% identity
                  RIBULOSE BISPHOSPHATE CARBOXYLASE SMALL CHAIN 3B PRECURSOR
NCBI Description
```

(RUBISCO SMALL SUBUNIT 3B) >gi\_68060\_pir\_\_RKMUB3

ribulose-bisphosphate carboxylase (EC 4.1.1.39) small chain B3 precursor - Arabidopsis thaliana >gi\_16195\_emb\_CAA32702\_

```
(X14564) ribulose bisphosphate carboxylase [Arabidopsis
                  thaliana]
                  145186
Seq. No.
                  LIB3168-055-P1-K1-F10
Seq. ID
                  BLASTN
Method
                  g2264316
NCBI GI
                  195
BLAST score
E value 🦈
                  1.0e-106
                  203
Match length
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MRO11, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145187
                  LIB3168-055-P1-K1-F11
Seq. ID
                  BLASTX
Method
NCBI GI
                  q4510348
                  193
BLAST score
                  9.0e-15
E value
                  57
Match length
% identity
                  (AC006921) unknown protein [Arabidopsis thaliana]
NCBI Description
                  145188
Seq. No.
                  LIB3168-055-P1-K1-F4
Seq. ID
                  BLASTX
Method
NCBI GI
                  q4467147
BLAST score
                  568
                  9.0e-59
E value
                  117
Match length
% identity
                  (AL035540) putative protein [Arabidopsis thaliana]
NCBI Description
                  145189
Seq. No.
                  LIB3168-055-P1-K1-F5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  575
                  1.0e-59
E value
                  124
Match length
                  87
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145190
                  LIB3168-055-P1-K1-F6
Seq. ID
Method
                  BLASTX
                  g2605714
NCBI GI
                  365
BLAST score
                  6.0e-35
E value
                  100
Match length
% identity
                  (AF026275) beta-tonoplast intrinsic protein [Arabidopsis
NCBI Description
```

Seq. No.

Seq. ID

Method

NCBI GI

## thaliana] 145191 Seq. No. LIB3168-055-P1-K1-F7 Seq. ID Method BLASTX NCBI GI q2827528 BLAST score 356 4.0e-37 E value 107 Match length % identity 68 NCBI Description (AL021633) predicted protein [Arabidopsis thaliana] Seq. No. 145192 LIB3168-055-P1-K1-F8 Seq. ID Method BLASTX g112682 NCBI GI BLAST score 386 E value 1.0e-37 Match length 88 83 % identity NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510 cruciferin precursor (CRB) - Arabidopsis thaliana >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 145193 LIB3168-055-P1-K1-G10 Seq. ID BLASTX Method NCBI GI g1703723 BLAST score 586 9.0e-61 E value 129 Match length 88 % identity ATP SYNTHASE BETA CHAIN >gi 733448 (U23082) CF1 ATP NCBI Description synthase beta subunit [Spinacia oleracea] Seq. No. 145194 LIB3168-055-P1-K1-G11 Seq. ID Method BLASTX NCBI GI g112739 BLAST score 363 E value 7.0e-35 90 Match length 79 % identity 2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi\_68854\_pir\_\_NWMU2 2S albumin 2 precursor -Arabidopsis thaliana >gi\_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi\_395205\_emb\_CAA80871\_ (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana] >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2 precursor [Arabidopsis thaliana]

18070

LIB3168-055-P1-K1-G12

145195

BLASTX

g3738338

```
BLAST score
                  414
E value
                  1.0e-40
                  128
Match length
% identity
                  59
                  (AC005170) putative polygalacturonase [Arabidopsis
NCBI Description
                  thaliana]
                  145196
Seq. No.
                  LIB3168-055-P1-K1-G2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112739
BLAST score
                  349
                  2.0e-33
E value
                  68
Match length
                  97
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-25 albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145197
Seq. ID
                  LIB3168-055-P1-K1-G3
                  BLASTX
Method
NCBI GI
                  q112741
BLAST score
                  271
                  5.0e-24
E value
                  51
Match length
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  145198
Seq. No.
Seq. ID
                  LIB3168-055-P1-K1-G4
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  526
                  9.0e-54
E value
                  135
Match length
                  77
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145199
                  LIB3168-055-P1-K1-G5
Seq. ID
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  650
```

3.0e-68

E value

```
Match length
                   139
% identity
                    89
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                    (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
precursor [Arabidopsis thaliana]
Seq. No.
                    145200
                   LIB3168-055-P1-K1-G6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g226120
                   238
BLAST score
E value
                    6.0e-20
Match length
                   116
                    41
% identity
NCBI Description
                   vicilin gene B [Saguinus oedipus]
Seq. No.
                    145201
                   LIB3168-055-P1-K1-G8
Seq. ID
Method
                   BLASTX
NCBI GI
                    q1628583
BLAST score
                   244
E value
                    4.0e-21
Match length
                    47
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi 2842495 emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                    145202
Seq. No.
Seq. ID
                   LIB3168-055-P1-K1-H1
Method
                   BLASTN
NCBI GI
                    q4539402
BLAST score
                   38
                    4.0e-12
E value
Match length
                    46
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F7L13
NCBI Description
                    (ESSA project)
                    145203
Seq. No.
Seq. ID
                   LIB3168-055-P1-K1-H10
Method
                   BLASTX
NCBI GI
                    g4263771
BLAST score
                   285
E value
                    2.0e-25
Match length
                   75
% identity
NCBI Description
                    (AC006218) putative nonspecific lipid-transfer protein
                   precursor [Arabidopsis thaliana]
                   >gi 4726121 gb AAD28321.1 AC006436 12 (AC006436) putative
```

thaliana]

nonspecific lipid-transfer protein precursor [Arabidopsis

```
Seq. No.
                  145204
                  LIB3168-055-P1-K1-H11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  415
                  4.0e-41
E value
Match length
                  82
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145205
Seq. No.
                  LIB3168-055-P1-K1-H12
Seq. ID
                  BLASTX
Method
NCBI GI
                  q4204265
BLAST score
                  288
                  8.0e-26
E value
                  109
Match length
                  57
% identity
NCBI Description
                  (AC005223) 45643 [Arabidopsis thaliana]
                  145206
Seq. No.
                  LIB3168-055-P1-K1-H2
Seq. ID
Method
                  BLASTN
                  g12255
NCBI GI
BLAST score
                  32
                  5.0e-09
E value
                  40
Match length
                  95
% identity
                  Spinach plastid genes rps2, atpI, atpH, atpF, atpA, trnR
NCBI Description
                  and trnG coding for ribosomal protein S2, one CF(1) and
                  three CF(O) subunits of ATP synthase and tRNA-Arg and
                  tRNA-Gly
                  145207
Seq. No.
Seq. ID
                  LIB3168-055-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  350
E value
                  3.0e-33
Match length
                  74
% identity
                  93
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145208
                  LIB3168-055-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  492
E value
                  9.0e-50
                  140
Match length
% identity
                  75
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
```

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed
storage protein [Arabidopsis thaliana]

Seq. No. 145209

Seq. ID LIB3168-056-P1-K1-A10

Method BLASTX
NCBI GI g1628583
BLAST score 480
E value 2.0e-48
Match length 133
% identity 74

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 145210

Seq. ID LIB3168-056-P1-K1-A11

Method BLASTX
NCBI GI g1628583
BLAST score 685
E value 2.0e-72
Match length 137
% identity 96

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 145211

Seq. ID LIB3168-056-P1-K1-A12

Method BLASTX
NCBI GI g112681
BLAST score 629
E value 7.0e-66
Match length 133
% identity 92

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

Fruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis

thaliana] >gi 808936 emb\_CAA32493\_ (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 145212

Seq. ID LIB3168-056-P1-K1-A2

Method BLASTN
NCBI GI g1628582
BLAST score 58
E value 4.0e-24
Match length 117
% identity 53

NCBI Description Arabidopsis thaliana 12S cruciferin seed storage protein

(ATCRU3) gene, complete cds

Seq. No. 145213

Seq. ID LIB3168-056-P1-K1-A5

Method BLASTX NCBI GI g1628583

```
BLAST score
                  137
                 3.0e-08
E value
                  110
Match length
                  57
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145214
Seq. No.
                  LIB3168-056-P1-K1-A6
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
BLAST score
                  625
                  2.0e-65
E value
                  139
Match length
                  87
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145215
Seq. No.
                  LIB3168-056-P1-K1-A7
Seq. ID 🍃
                  BLASTX
Method
                  q1628583
NCBI GI
BLAST score
                  464
                  9.0e-47
E value
                  96
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145216
Seq. No.
                  LIB3168-056-P1-K1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  585
                  9.0e-61
E value
Match length
                  116
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145217
Seq. No.
Seq. ID
                  LIB3168-056-P1-K1-B1
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  668
E value
                  2.0e-70
Match length
                  126
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

BLAST score.

441

```
Seq. No.
                  145218
Seq. ID
                  LIB3168-056-P1-K1-B10
                  BLASTX
Method
                  g1628583
NCBI GI
                  711
BLAST score
                  2.0e-75
E value
                  136 .
Match length
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145219
Seq. No.
Seq. ID
                  LIB3168-056-P1-K1-B12
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  561
E value
                  7.0e-58
Match length
                  135
% identity
                  81
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145220
Seq. ID
                  LIB3168-056-P1-K1-B2
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  134
                  2.0e-09
E value
Match length
                  62
% identity
                  61
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145221
                  LIB3168-056-P1-K1-B4
Seq. ID
                  BLASTN
Method
                  q4538895
NCBI GI
BLAST score
                  348
E value
                  0.0e + 00
Match length
                  411
% identity
                  96
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone
                  (ESSA project)
Seq. No.
                  145222
Seq. ID
                  LIB3168-056-P1-K1-B5
Method
                  BLASTX
NCBI GI
                  g1628583
```

Method

NCBI GI

BLASTN

q2739359

```
E value
                  5.0e-44
Match length
                  90
% identity
                  93
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145223
Seq. No.
Seq. ID
                  LIB3168-056-P1-K1-B6
Method
                  BLASTX
NCBI GI
                  g112682
                  641
BLAST score
                  3.0e-67
E value
                  135
Match length
% identity
                  90
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145224
Seq. No.
                  LIB3168-056-P1-K1-C1
Seq. ID
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  566
E value
                  2.0e-58
Match length
                  137
                  80
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145225
                  LIB3168-056-P1-K1-C10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  463
                  2.0e-46
E value
Match length
                  130
                  70
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3.
                  precursor [Arabidopsis thaliana]
                  145226
Seq. No.
Seq. ID
                  LIB3168-056-P1-K1-C11
```

```
286
BLAST score
E value
                  1.0e-160
                  355
Match length
% identity
                  Arabidopsis thaliana chromosome II BAC T9J22 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  145227
Seq. No.
Seq. ID
                  LIB3168-056-P1-K1-C12
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  489
                  2.0e-49
E value
                  109
Match length
% identity
                  87
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145228
Seq. No.
                  LIB3168-056-P1-K1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  245
E value
                  6.0e-21
Match length
                  95
                  60
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145229
Seq. No.
Seq. ID
                  LIB3168-056-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  a1628583
BLAST score
                  603
                  9.0e-63
E value
Match length
                  115
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana} >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145230
Seq. ID
                  LIB3168-056-P1-K1-C6
                  BLASTX
Method:
                  g1628583
NCBI GI
BLAST score
                  463
E value
                  2.0e-46
Match length
                  96
                  95
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi 2842495\_emb\_CAA16892\_ (AL021749) 12S

## cruciferin seed storage protein [Arabidopsis thaliana]

```
145231
Seq. No.
Seq. ID
                  LIB3168-056-P1-K1-C7
                  BLASTN
Method
                  g2708736
NCBI GI
                  313
BLAST score
                  1.0e-176
E value
Match length
                  321
                  99
% identity
NCBI Description
                  Arabidopsis thaliana BAC T13L16 from chromosome II, near 33
                  cM, complete sequence [Arabidopsis thaliana]
                  145232
Seq. No.
Seq. ID
                  LIB3168-056-P1-K1-C8
Method
                  BLASTN
                  g4406805
NCBI GI
BLAST score
                  340
E value
                  0.0e+00
Match length
                  348
                  99
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T27K22 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145233
Seq. ID
                  LIB3168-056-P1-K1-C9
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  601
E value
                  1.0e-62
Match length
                  140
% identity
                  81
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145234
                  LIB3168-056-P1-K1-D11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  73
E value
                  2.0e-17
Match length
                  69
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145235
Seq. No.
                  LIB3168-056-P1-K1-D3
Seq. ID
Method
                  BLASTN
                  q4079614
NCBI GI
                  40
BLAST score
                  2.0e-13
E value
Match length
                  122
```

NCBI GI BLAST score

```
% identity
NCBI Description
                  Arabidopsis thaliana chromosome I BAC F21M11 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
                  145236
Seq. No.
                  LIB3168-056-P1-K1-D5
Seq. ID
                  BLASTN
Method
NCBI GI
                  g725259
                  182
BLAST score
                  7.0e-98
E value
                  294
Match length
                  90
% identity
                  Arabidopsis thaliana oleosin mRNA, complete cds
NCBI Description
Seq. No.
                  145237
                  LIB3168-056-P1-K1-D6
Seq. ID
Method
                  BLASTX
                  q112681
NCBI GI
BLAST score
                  628
                  1.0e-65
E value
                  124-
Match length
                  98
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145238
                  LIB3168-056-P1-K1-D7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  195
                  1.0e-15
E value
Match length
                  67
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145239
Seq. No.
                  LIB3168-056-P1-K1-D8
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  652
                  1.0e-68
E value
                  126
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145240
Seq. ID
                  LIB3168-056-P1-K1-D9
Method
                  BLASTX
```

18080

g1628583

574

Seq. No.

Seq. ID

145245

LIB3168-056-P1-K1-E5

```
E value
                  2.0e-59
Match length
                  141
% identity
                  79
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145241
Seq. No.
                  LIB3168-056-P1-K1-E10
Seq. ID
                  BLASTX
Method
                  g4204298
NCBI GI
BLAST score
                  570
                  6.0e-59
E value
                  124
Match length
% identity
                  89
                   (AC003027) lcl_prt_seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  145242
                  LIB3168-056-P1-K1-E11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3434973
BLAST score
                  444
E value
                  3.0e-44
Match length
                  106
% identity
                   (AB008106) ethylene responsive element binding factor 4
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  145243
                  LIB3168-056-P1-K1-E2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  420
E value
                  1.0e-41
Match length
                  91
% identity
                  90
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145244
                  LIB3168-056-P1-K1-E3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  536
                   6.0e-55
E value
Match length
                  128
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
```

18081

BLAST score

580

```
Method
                  BLASTX
NCBI GI
                  g4204299
BLAST score
                  106
E value
                  2.0e-21
                  93
Match length
                  69
% identity
                  (AC003027) lcl_prt_seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
                  145246
Seq. No.
                  LIB3168-056-P1-K1-E6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112743
BLAST score
                  636
E value
                  1.0e-66
Match length
                  135
                  88
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68856 pir NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145247
                  LIB3168-056-P1-K1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3913194
BLAST score
                  153
E value
                  8.0e-13
Match length
                  71
% identity
                  52
                  CINNAMYL-ALCOHOL DEHYDROGENASE 3 (CAD) >gi_548323 (L36456)
NCBI Description
                  cinnamyl-alcohol dehydrogenase [Stylosanthes humilis]
Seq. No.
                  145248
Seq. ID
                  LIB3168-056-P1-K1-E9
                  BLASTX
Method
NCBI GI
                  g112737
                  555
BLAST score
E value
                  4.0e-57
Match length
                  134
                  81
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145249
Seq. ID
                  LIB3168-056-P1-K1-F1
Method
                  BLASTX
                  g112737
NCBI GI
```

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4.0e-60 E value Match length 139 81 % identity 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745), 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana] Seq. No. 145250 Seq. ID LIB3168-056-P1-K1-F10 Method BLASTN NCBI GI g4512656 BLAST score 263 1.0e-146 E value 390 Match length 98 % identity Arabidopsis thaliana chromosome II BAC F7D19 genomic NCBI Description sequence, complete sequence Seq. No. 145251 LIB3168-056-P1-K1-F12 Seq. ID Method BLASTX NCBI GI g1628583 BLAST score 338 2.0e-32 E value 70 Match length % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 145252 LIB3168-056-P1-K1-F2 Seq. ID Method BLASTX NCBI GI g112741 BLAST score 480 2.0e-48 E value Match length 101 % identity 91 NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -

Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 145253

Seq. ID LIB3168-056-P1-K1-F3

Method BLASTX
NCBI GI g4585998
BLAST score 319
E value 2.0e-29
Match length 121

Seq. No.

145258

```
% identity
                  53
                  (AC005287) Hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  145254
Seq. No.
                  LIB3168-056-P1-K1-F4
Seq. ID
                  BLASTN
Method
                  q4757403
NCBI GI
                  262
BLAST score
E value
                  1.0e-145
                  420
Match length
% identity
                  99
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MJL12, complete sequence
Seq. No.
                  145255
                  LIB3168-056-P1-K1-F6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1755162
                  328
BLAST score
E value
                  7.0e-31
                  79
Match length
                  86
% identity
                  (U75192) germin-like protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145256
                  LIB3168-056-P1-K1-F7
Seq. ID
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  550
E value
                  1.0e-56
Match length
                  133
% identity
                  80
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145257
Seq. ID
                  LIB3168-056-P1-K1-F8
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  187
E value
                  1.0e-14
Match length
                  52
% identity
                  73
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
```

Match length

```
LIB3168-056-P1-K1-F9
Seq. ID
                  BLASTN
Method
                  g2880038
NCBI GI
                  244
BLAST score
                  1.0e-135
E value
                  336
Match length
                  83
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T11J7 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145259
                  LIB3168-056-P1-K1-G10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  528
                  5.0e-54
E value
                  106
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145260
Seq. No.
                  LIB3168-056-P1-K1-G11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112741
BLAST score
                  596
E value
                  4.0e-62
                  112
Match length
                  98
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145261
                  LIB3168-056-P1-K1-G12
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  625
BLAST score
                  2.0e-65
E value
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145262
                  LIB3168-056-P1-K1-G2
Seq. ID
                  BLASTX
Method
                  q4510383
NCBI GI
                  498
BLAST score
                  2.0e-50
E value
                  142
```

```
% identity
                   71
NCBI Description
                   (AC007017) unknown protein [Arabidopsis thaliana]
                   145263
·Seq. No.
                   LIB3168-056-P1-K1-G3
Seq. ID
Method
                   BLASTX
                   q1628583
NCBI GI
BLAST score
                   42
E value
                   6.0e-34
                   95
Match length
% identity
                   75
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145264
Seq. ID
                   LIB3168-056-P1-K1-G4
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   84
E value :
                   2.0e-20
Match length
                   81
                   74
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145265
                   LIB3168-056-P1-K1-G5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   578
E value
                   7.0e-60
Match length
                   135
                   81
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145266
Seq. No.
Seq. ID
                   LIB3168-056-P1-K1-G6
Method
                   BLASTX
NCBI GI
                   q112741
BLAST score
                   243
E value
                   6.0e-21
Match length
                   76
                   66
% identity
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
```

precursor [Arabidopsis thaliana]

BLAST score

E value

151

9.0e-11

```
Seq. No.
                  145267
                  LIB3168-056-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  551
E value
                  1.0e-56
                  137
Match length
                  79
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145268
Seq. No.
                  LIB3168-056-P1-K1-G9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  645
                  1.0e-67
E value
                  136
Match length
                  93
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145269
Seq. ID
                  LIB3168-056-P1-K1-H10
Method
                  BLASTX
NCBI GI
                  g3805854
BLAST score
                  69
E value
                  6.0e-19
Match length
                  53
% identity
                  96
                  (AL031986) putative protein [Arabidopsis thaliana]
NCBI Description
                  145270
Seq. No.
                  LIB3168-056-P1-K1-H11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3449318
BLAST score
                  345
                  0.0e+00
E value
                  396
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MLF18, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145271
                  LIB3168-056-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129657
```

```
Match length
                    51
                    78
% identity
NCBI Description
                    oleosin isoform - Arabidopsis thaliana
                    >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                    [Arabidopsis thaliana]
                    145272
Seq. No.
Seq. ID
                    LIB3168-056-P1-K1-H8
Method
                    BLASTX
                    q2129657
NCBI GI
BLAST score
                    222
                    4.0e-18
E value
Match length
                    89
% identity
                    60
NCBI Description
                    oleosin isoform - Arabidopsis thaliana
                    >gi_987014_emb_CAA90877 (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                    [Arabidopsis thaliana]
                    145273
Seq. No.
Seq. ID
                    LIB3168-056-P1-K1-H9
Method
                    BLASTX
NCBI GI
                    q2924779
BLAST score
                    601
E value
                    1.0e-62
Match length
                    123
% identity
                    (AC002334) putative 3-ketoacyl-CoA thiolase [Arabidopsis
NCBI Description
                    thaliana] >gi_2981616_dbj_BAA25248_ (AB008854)
                    3-ketoacyl-CoA thiolase [Arabidopsis thaliana]
                    >gi_2981618_dbj_BAA25249_ (AB008855) 3-ketoacyl-CoA
                    thiolase [Arabidopsis thaliana]
                    145274
Seq. No.
Seq. ID
                    LIB3168-057-P1-K1-A10
Method
                    BLASTX
NCBI GI
                    q1628583
BLAST score
                    455
E value
                    1.0e-45
Match length
                   · 91
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                    145275
Seq. ID
                    LIB3168-057-P1-K1-A11
Method
                    BLASTX
NCBI GI
                    q3273743
BLAST score
                    448
E value
                    8.0e-45
Match length
                    87
% identity
NCBI Description
                    (AF057357) lipid transfer protein 2 precursor [Arabidopsis
                    thaliana] >gi 3786019 (AC005499) unknown protein
```

[Arabidopsis thaliana]

```
Seq. No.
                   145276
                  LIB3168-057-P1-K1-A12
Seq. ID
Method
                  BLASTN
NCBI GI
                   q4587641
BLAST score
                   179
                   5.0e-96
E value
Match length
                   378
% identity
                   99
NCBI Description
                  Arabidopsis thaliana chromosome I BAC F20D21 genomic
                   sequence, complete sequence
                   145277
Seq. No.
Seq. ID
                  LIB3168-057-P1-K1-A4
Method
                  BLASTX
NCBI GI
                   q2914710
BLAST score
                   288
                   7.0e-26
E value
                   55
Match length
% identity
                   93
                   (AC003974) putative beta-D-galactosidase [Arabidopsis
NCBI Description
                   thaliana]
                   145278
Seq. No.
                  LIB3168-057-P1-K1-A5
Seq. ID
Method
                  BLASTN
                  g992642
NCBI GI
                   79
BLAST score
E value
                   4.0e-37
Match length
                  83
                   99
% identity
                  Arabidopsis thaliana cyclophilin (ATCYP1) gene, complete
NCBI Description
                   145279
Seq. No.
Seq. ID
                  LIB3168-057-P1-K1-A6
Method
                  BLASTN
NCBI GI
                  g3093275
                   94
BLAST score
E value
                   1.0e-45
Match length
                  123
% identity
NCBI Description
                  Arabidopsis thaliana cdal gene
                   145280
Seq. No.
                  LIB3168-057-P1-K1-A7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3193282
BLAST score
                   34
                   5.0e-10
E value
Match length
                  81
% identity
                   91
NCBI Description
                  Arabidopsis thaliana BAC T14P8
                   145281
Seq. No.
                  LIB3168-057-P1-K1-A9
Seq. ID
Method
                  BLASTX
```

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```
q1628583
NCBI GI
BLAST score
                  472
E value
                  2.0e-47
Match length
                  102
                  91
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145282
                  LIB3168-057-P1-K1-B1
Seq. ID
                  BLASTX
Method
NCBI GI
                  a2129532
BLAST score
                  263
                  5.0e-23
E value
                  80
Match length
% identity
                  70
                  acyl-[acyl-carrier-protein] desaturase (EC 1.14.99.6) -
NCBI Description
                  Arabidopsis thaliana >gi 1107507_emb_CAA63746_ (X93461)
                  acyl-[acyl-carrier protein] desaturase [Arabidopsis
                  thaliana]
Seq. No.
                  145283
                  LIB3168-057-P1-K1-B10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  438
E value
                  1.0e-43
Match length
                  104
% identity
                  84
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145284
Seq. ID
                  LIB3168-057-P1-K1-B11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  445
E value
                  2.0e-44
Match length
                  96
% identity
                  93
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145285
                  LIB3168-057-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  191
E value
                  4.0e-15
Match length
                  55
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  145286
                  LIB3168-057-P1-K1-B2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1854386
BLAST score
                  455
                  2.0e-45
E value
                  123
Match length
% identity
NCBI Description
                   (AB001375) similar to soluble NSF attachment protein [Vitis
                  vinifera]
                  145287
Seq. No.
                  LIB3168-057-P1-K1-B3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3269284
BLAST score
                  348
                  7.0e-33
E value
                  115
Match length
                  65
% identity
                  (AL030978) histone H2A- like protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145288
                  LIB3168-057-P1-K1-B5
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4079614
BLAST score
                  82
E value
                  1.0e-38
Match length
                  122
% identity
                  Arabidopsis thaliana chromosome I BAC F21M11 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145289
                  LIB3168-057-P1-K1-B6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  530
E value
                  2.0e-54
Match length
                  103
% identity
                  97
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145290
Seq. No.
                  LIB3168-057-P1-K1-B7
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
BLAST score
                  441
                  4.0e-44
E value
Match length
                  87
                  97
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
```

thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed

Seq. No.

145295

## storage protein [Arabidopsis thaliana]

```
145291
Seq. No.
                  LIB3168-057-P1-K1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  655
                  6.0e-69
E value
Match length
                  127
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145292
Seq. No.
                  LIB3168-057-P1-K1-B9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  374
E value
                  4.0e-36
Match length
                  90
                  81
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145293
Seq. No.
Seq. ID
                  LIB3168-057-P1-K1-C1
Method
                  BLASTN
NCBI GI
                  g1069997
BLAST score
                  53
E value
                  6.0e-21
Match length
                  85
% identity
                  92
NCBI Description B.napus chloroplast accD gene
                  145294
Seq. Ņo.
                  LIB3168-057-P1-K1-C10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  457
E value
                  9.0e-46
Match length
                  111
% identity
                  82
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
```

ei.

```
LIB3168-057-P1-K1-C11
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  395
                  2.0e-38
E value
Match length
                  116
                  72
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145296
                  LIB3168-057-P1-K1-C12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1592679
BLAST score
                  310
                  9.0e-29
E value
                  81
Match length
                  80
% identity
                  (X91915) LEA D113 homologue typel [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145297
                  LIB3168-057-P1-K1-C3
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112681
                  305
BLAST score
E value
                  6.0e-28
Match length
                  91
                  67
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145298
Seq. ID.
                  LIB3168-057-P1-K1-C4
Method
                  BLASTX
                  q1628583
NCBI GI
                  353
BLAST score
                  1.0e-33
E value
                  92
Match length
                  80
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145299
                  LIB3168-057-P1-K1-C5
Seq. ID
Method
                  BLASTN
NCBI GI
                  q395200
BLAST score
                  157
                  3.0e-83
E value
Match length
                  224
% identity
                  82
NCBI Description A.thaliana 2S albumin gene isoforms 3 and 4, complete CDS's
```

```
145300
Seq. No.
                  LIB3168-057-P1-K1-C6
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4490701
                  151
BLAST score
                  1.0e-79
E value
                  175
Match length
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T24A18
NCBI Description
                   (ESSA project)
                  145301
Seq. No.
                  LIB3168-057-P1-K1-C7
Seq. ID
Method
                  BLASTX
                  q3273751
NCBI GI
                  72
BLAST score
                  1.0e-30
E value
                  89
Match length
                  83
% identity
                  (AF061518) manganese superoxide dismutase [Arabidopsis
NCBI Description
                  thaliana]
                  145302
Seq. No.
                  LIB3168-057-P1-K1-C8
Seq. ID
Method
                  BLASTN
                  g4490701
NCBI GI
BLAST score
                  62
                  4.0e-27
E value
                  74
Match length
                  69
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T24A18
NCBI Description
                   (ESSA project)
                  145303
Seq. No.
                  LIB3168-057-P1-K1-C9
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4388816
BLAST score
                  239
                  1.0e-132
E value
                   345
Match length
                   98
% identity
                  Arabidopsis thaliana chromosome II BAC F9B22 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  145304
Seq. No.
                  LIB3168-057-P1-K1-D10
Seq. ID
                  BLASTX
Method
NCBI GI
                   g1628583
BLAST score
                   271
E value
                   2.0e-27
                   70
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

Seq. No.

Match length

132

```
Seq. ID
                  LIB3168-057-P1-K1-D11
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  516
                  9.0e-53
E value
                  95
Match length
                  100
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145306
                  LIB3168-057-P1-K1-D3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  527
                  7.0e-54
E value
                  142
Match length
                  78
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir _S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145307
Seq. ID
                  LIB3168-057-P1-K1-D4
Method
                  BLASTN
                  g4755185
NCBI GI
BLAST score
                  232
                  1.0e-128
E value
Match length
                  264
                  97
% identity
                  Arabidopsis thaliana chromosome II BAC F5G3 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  145308
                  LIB3168-057-P1-K1-D5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q129867
                  404
BLAST score
                  7.0e-40
E value
                  81
Match length
% identity
                  CYTOCHROME B6-F COMPLEX SUBUNIT 4 (17 KD POLYPEPTIDE)
NCBI Description
                  >gi_2924273_emb_CAA77425_ (Z00044) cytochrome b/f complex
                  subunit IV [Nicotiana tabacum]
Seq. No.
                  145309
                  LIB3168-057-P1-K1-D7
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112682
BLAST score
                  538
                  4.0e-55
E value
```

```
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145310
Seq. No.
                  LIB3168-057-P1-K1-D9
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  752
                  3.0e-80
E value
                  143
Match length
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145311
Seq. No.
                  LIB3168-057-P1-K1-E10
Seq. ID
                  BLASTX
Method
                  g2160185
NCBI GI
BLAST score
                  189
                  3.0e-14
E value
Match length
                  71
% identity
                  48
NCBI Description
                  (AC000132) Similar to S. pombe ISP4 (gb D83992).
                  [Arabidopsis thaliana]
                  145312
Seq. No.
                  LIB3168-057-P1-K1-E12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  570
BLAST score
                  6.0e-59
E value
Match length
                  142
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145313
                  LIB3168-057-P1-K1-E2
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
                  178
BLAST score
                  3.0e-13
E value
                  94
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
```

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  145314
                  LIB3168-057-P1-K1-E4
Seq. ID
Method
                  BLASTN
                  g2760173
NCBI GI
BLAST score
                  343
                  0.0e+00
E value
                  374
Match length
                  97
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MYH19, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145315
                  LIB3168-057-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  584
                  1.0e-60
E value
Match length
                  116
                  96
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145316
Seq. No.
                  LIB3168-057-P1-K1-E6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  351
                  2.0e-33
E value
                  84
Match length
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145317
                  LIB3168-057-P1-K1-E7
Seq. ID
Method
                 BLASTX
                  q112741
NCBI GI
BLAST score
                  454
                  2.0e-45
E value
                  127
Match length
                  70
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
```

Seq. No.

```
LIB3168-057-P1-K1-E8
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  237
E value
                  2.0e-20
                  54
Match length
                  89
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145319
                  LIB3168-057-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  193
E value
                  3.0e-15
                  51
Match length
                  82
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145320
Seq. ID
                  LIB3168-057-P1-K1-F1
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  343
E value
                  2.0e-43
Match length
                  118
                  80
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145321
Seq. ID
                  LIB3168-057-P1-K1-F10
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  488
E value
                  3.0e-49
Match length
                  131
% identity
                  73
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145322
Seq. ID
                  LIB3168-057-P1-K1-F12
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  279
E value
                  2.0e-61
Match length
                  142
                  87
% identity
```

```
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145323
Seq. No.
                  LIB3168-057-P1-K1-F2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1706749
BLAST score
                  432
E value
                  9.0e-43
Match length
                  85
% identity
                  98
                  3-OXOACYL-[ACYL-CARRIER-PROTEIN] SYNTHASE I PRECURSOR
NCBI Description
                  (BETA-KETOACYL-ACP SYNTHASE I) (KAS I) >gi 780814 (U24177)
                  3-ketoacyl-acyl carrier protein synthase I [Arabidopsis
                  thaliana]
                  145324
Seq. No.
                 .LIB3168-057-P1-K1-F3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
                  192
BLAST score
                  3.0e-15
E value
Match length
                  59
                  63
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145325
                  LIB3168-057-P1-K1-F4
Seq. ID
                  BLASTX
Method
                  g112741
NCBI GI
BLAST score
                  508
E value
                  7.0e-52
                  95
Match length
                  99
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855_pir_NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145326
Seq. ID
                  LIB3168-057-P1-K1-F5
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  222
                  1.0e-43
E value
                  104
Match length
```

% identity

```
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145327
Seq. No.
                  LIB3168-057-P1-K1-F6
Seq. ID
                  BLASTN
Method
NCBI GI
                  q3059018
BLAST score
                  194
E value
                  1.0e-105
Match length
                  295
                  92
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F1C12
NCBI Description
                  (ESSAII project)
                  145328
Seq. No.
                  LIB3168-057-P1-K1-F7
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
                  81
BLAST score
                  4.0e-54
E value
                  122
Match length
                  86
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145329
Seq. No.
                  LIB3168-057-P1-K1-F8
Seq. ID
                  BLASTX
Method
                  q4432846
NCBI GI
BLAST score
                  548
                  2.0e-56
E value
                  108
Match length
                  96
% identity
NCBI Description
                  (AC006283) unknown protein [Arabidopsis thaliana]
                  145330
Seq. No.
                  LIB3168-057-P1-K1-F9
Seq. ID
                  BLASTX
Method
NCBI GI
                  q3367515
                  478
BLAST score
E value
                  4.0e-48
                  97
Match length
                  95
% identity
NCBI Description
                  (AC004392) Similar to
                  glucose-6-phosphate/phosphate-translocator (GPT)
                  gb AF020814 from Pisum sativum. [Arabidopsis thaliana]
Seq. No.
                  145331
                  LIB3168-057-P1-K1-G1
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112682
                  603
BLAST score
```

8.0e-63

E value

```
Match length
                  125
                  93
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145332
Seq. No.
                  LIB3168-057-P1-K1-G10
Seq. ID
Method
                  BLASTX
                  g2194142
NCBI GI
                  438
BLAST score
                  2.0e-43
E value
                  90
Match length
% identity
                  (AC002062) ESTs gb N38288, gb T43486, gb AA395242 come from
NCBI Description
                  this gene. [Arabidopsis thaliana]
                  145333
Seq. No.
                  LIB3168-057-P1-K1-G12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  564
                  3.0e-58
E value
Match length
                  132
                  81
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145334
                  LIB3168-057-P1-K1-G3
Seq. ID
Method ~
                  BLASTX
                  g112681
NCBI GI
BLAST score -
                  373
E value
                  7.0e-38
Match length
                  95
% identity
                  80
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145335
                  LIB3168-057-P1-K1-G5
Seq. ID
Method
                  BLASTN
NCBI GI
                  q2281648
BLAST score
                  168
E value
                  1.0e-89
                  192
Match length
                  97
% identity
                  Arabidopsis thaliana AP2 domain containing protein RAP2.12
NCBI Description
```

mRNA, partial cds

NCBI GI

```
145336
Seq. No.
                  LIB3168-057-P1-K1-G6
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
                  689
BLAST score
                  7.0e-73
E value
                  140
Match length
                  94
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145337
Seq. No.
                  LIB3168-057-P1-K1-G7
Seq. ID
                  BLASTX
Method
                  q1628583
NCBI GI
                  645
BLAST score
                  1.0e-67
E value
Match length
                  138
% identity
                  91
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145338
                  LIB3168-057-P1-K1-G8
Seq. ID
                  BLASTX
Method
                  q2865177
NCBI GI
                  434
BLAST score
                  6.0e-43
E value
                  107
Match length
                  79
% identity
                  (AB010946) AtRer1B [Arabidopsis thaliana]
NCBI Description
                  145339
Seq. No.
Seq. ID
                  LIB3168-057-P1-K1-G9
Method
                  BLASTX
NCBI GI
                  q112739
                  599
BLAST score
                  3.0e-62
E value
Match length
                  139
                  81
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145340
                  LIB3168-057-P1-K1-H12
Seq. ID
Method
                  BLASTX
```

q4587686

```
BLAST score
                  663
E value
                  7.0e-70
                  134
Match length
                  98
% identity
                  (AC007197) dynamin-like protein ADL2 [Arabidopsis thaliana]
NCBI Description
                  145341
Seq. No.
                  LIB3168-057-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
                  498
BLAST score
                  2.0e-50
E value
                  106
Match length
                  94
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145342
Seq. No.
                  LIB3168-057-P1-K1-H8
Seq. ID
Method
                  BLASTN
NCBI GI
                  q16231
BLAST score
                  116
                  5.0e-59
E value
Match length
                  128
% identity
NCBI Description
                  Arabidopsis CRA1 gene for 12S seed storage protein
                  >gi 166675 gb M37247 ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
Seq. No.
                  145343
Seq. ID
                  LIB3168-057-P1-K1-H9
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  571
                  5.0e-59
E value
Match length
                  137
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145344
Seq. ID
                  LIB3168-058-P1-K1-A10
Method ·
                  BLASTX
NCBI GI-
                  g1628583
BLAST score
                  697
                  8.0e-74
E value
                  139
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

NCBI GI

E value

BLAST score

q2129657

5.0e-21

246

```
thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145345
                   LIB3168-058-P1-K1-A11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
                   591
BLAST score
                   2.0e-61
E value
Match length
                   137
                   82
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                   145346
Seq. No.
                   LIB3168-058-P1-K1-A12
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3402716
BLAST score
                   172
E value
                   2.0e-12
                   42
Match length
                   71
% identity
NCBI Description
                   (AC004261) unknown protein [Arabidopsis thaliana]
Seq. No.
                   145347
                   LIB3168-058-P1-K1-A2
Seq. ID
                   BLASTX
Method
NCBI GI
                   g2262167
BLAST score
                   124
E value
                   2.0e-33
                   87
Match length
                   89
% identity
                   (AC002329) cytosolic ribosomal protein S4 [Arabidopsis
NCBI Description
                   thaliana]
Seq. No.
                   145348
Seq. ID
                   LIB3168-058-P1-K1-A4
Method
                   BLASTX
NCBI GI
                   g2129657
BLAST score
                   292
                   2.0e-26
E value
                   93
Match length
                   69
% identity
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014 emb_CAA90877_ (Z54164) oleosin [Arabidopsis thaliana] >gi_987016 emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   145349
                   LIB3168-058-P1-K1-A6
Seq. ID
Method
                   BLASTX
```

```
93
Match length
                    59
% identity
                    oleosin isoform - Arabidopsis thaliana
NCBI Description
                    >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                    [Arabidopsis thaliana]
                    145350
Seq. No.
                    LIB3168-058-P1-K1-A9
Seq. ID
Method
                    BLASTX
NCBI GI
                    q1628583
                    601
BLAST score
E value
                    1.0e-62
Match length
                    130
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                    thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
                    145351
Seq. No.
                    LIB3168-058-P1-K1-B1
Seq. ID
                    BLASTN
Method
NCBI GI
                    g4582444
BLAST score
                    64
E value
                    8.0e-28
                    92
Match length
 % identity
                    92
                    Arabidopsis thaliana chromosome II BAC T9H9 genomic
NCBI Description
                    sequence, complete sequence
                    145352
Seq. No.
                    LIB3168-058-P1-K1-B10
Seq. ID
                    BLASTX
Method
NCBI GI
                    g112681
 BLAST score
                    737
                    2.0e-78
 E value
Match length
                    140
 % identity
                    99
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir_ S08509
 NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi_808936_emb_CAA32493 (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
                    145353
 Seq. No.
                    LIB3168-058-P1-K1-B11
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g1628583
 BLAST score
                    670
                    1.0e-70
 E value
Match length
                    140
 % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                    thaliana] >gi 2842495 emb_CAA16892 (AL021749) 12S
                    cruciferin seed storage protein [Arabidopsis thaliana]
```

Seq. No.

```
LIB3168-058-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  438
                  2.0e-43
E value
                  124
Match length
                  72
% identity
                 .2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145355
                  LIB3168-058-P1-K1-B3
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
                  733
BLAST score
E value
                  5.0e-78
                  138
Match length
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145356
Seq. ID
                  LIB3168-058-P1-K1-B4
                  BLASTX
Method
NCBI GI
                  g112741
BLAST score
                  531
                  2.0e-54
E value
                  98
Match length
% identity
                  100
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir_NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  145357
Seq. No.
                  LIB3168-058-P1-K1-B5
Seq. ID
Method
                  BLASTN
                  g3036791
NCBI GI
BLAST score
                  366
                  0.0e+00
E value
                  410
Match length
                  97
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T19K4
                  (ESSAII project)
```

. . . . . .

145358

Seq. No.

```
Seq. ID
                  LIB3168-058-P1-K1-B6
Method
                  BLASTX
                  g112681
NCBI GI
                  472
BLAST score
                  2.0e-47
E value
                  125
Match length
                  77
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__$08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145359
                  LIB3168-058-P1-K1-B9
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4159712
                  309
BLAST score
                  1.0e-173
E value
Match length
                  325
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MWI23, complete sequence
                  145360
Seq. No.
                  LIB3168-058-P1-K1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1169476
BLAST score
                  639
                  5.0e-67
E value
                  122
Match length
                  100
% identity
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
NCBI Description
                  ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632)
                  vitronectin-like adhesion protein [Nicotiana tabacum]
                  145361
Seq. No.
                  LIB3168-058-P1-K1-C10
Seq. ID
Method
                  BLASTN
                  g3859658
NCBI GI
                  51
BLAST score
                  1.0e-19
E value
Match length
                  318
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T16L1
NCBI Description
                  (ESSAII project)
                  145362
Seq. No.
                  LIB3168-058-P1-K1-C11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g16231
BLAST score
                  66
                  9.0e-29
E value
                  106
Match length
                  92
% identity
                  Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
```

>gi 166675\_gb\_M37247\_ATHCRA1AA A.thaliana 12S storage

Method

NCBI GI

BLAST score

BLASTX q4262226

231

## protein CRA1 gene, exons 1-4 145363 Seq. No. LIB3168-058-P1-K1-C12 Seq. ID BLASTX Method NCBI GI g112743 642 BLAST score 2.0e-67 E value 135 Match length 89 % identity 2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi\_68856\_pir\_\_NWMU4 2S albumin 4 precursor -Arabidopsis thaliana >gi\_166617 (M22033) albumin 2S subunit 4 precursor [Arabidopsis thaliana] >gi\_395202\_emb\_CAA80869\_ (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana] >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4 precursor [Arabidopsis thaliana] Seq. No. 145364 LIB3168-058-P1-K1-C2 Seq. ID BLASTX Method NCBI GI g1899025 346 BLAST score 1.0e-32 E value 136 Match length % identity NCBI Description (U28215) hexokinase 2 [Arabidopsis thaliana] >gi\_3687232 (AC005169) hexokinase [Arabidopsis thaliana] 145365 Seq. No. LIB3168-058-P1-K1-C3 Seq. ID BLASTN Method g2244991 NCBI GI 275 BLAST score 1.0e-153 E value Match length 396 99 % identity NCBI Description Arabidopsis thaliana DNA chromosome 4, ESSA I contig fragment No Seq. No. 145366 LIB3168-058-P1-K1-C4 Seq. ID BLASTX Method q584882 NCBI GI 161 BLAST score 1.0e-30 E value 71 Match length 93 % identity CYCLOARTENOL SYNTHASE (2,3-EPOXYSQUALENE--CYCLOARTENOL NCBI Description CYCLASE) >gi 452446 (U02555) cycloartenol synthase; (S)-2,3-epoxysqualene mutase [Arabidopsis thaliana] 145367 Seq. No. LIB3168-058-P1-K1-C5 Seq. ID

Match length

81

```
E value
                  3.0e-19
Match length
                  73
                  59
% identity
                  (AC006200) putative protein kinase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145368
                  LIB3168-058-P1-K1-C6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1109699
BLAST score
                  731
                  8.0e-78
E value
Match length
                  138
% identity
                  100
                  (X83381) gibberellin 20-oxidase [Arabidopsis thaliana]
NCBI Description
                  145369
Seq. No.
                  LIB3168-058-P1-K1-C7
Seq. ID
Method
                  BLASTN
                  g1628582
NCBI GI
BLAST score
                  177
                  6.0e-95
E value
                  289
Match length
                  91
% identity
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                   (ATCRU3) gene, complete cds
Seq. No.
                  145370
                  LIB3168-058-P1-K1-D1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g140321
BLAST score
                  282
                  2.0e-25
E value
Match length
                  63
                  84
% identity
                  HYPOTHETICAL 7.5 KD PROTEIN (ORF 63) >gi_81507_pir__S01447
NCBI Description
                  hypothetical protein 63 - spinach chloroplast
                  >gi_12247_emb_CAA30744_ (X07908) ORF 63 [Spinacia oleracea]
Seq. No.
                  145371
                  LIB3168-058-P1-K1-D10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  586
                  7.0e-61
E value
                  116
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145372
Seq. No.
                  LIB3168-058-P1-K1-D11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  342
E value
                  2.0e-32
```

E value

2.0e-30

```
% identity
                  85
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145373
Seq. No.
                  LIB3168-058-P1-K1-D2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2351062
BLAST score
                  397
E value
                  0.0e + 00
Match length
                  397
                  100
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MAH20, complete sequence [Arabidopsis thaliana]
                  145374
Seq. No.
                  LIB3168-058-P1-K1-D3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4159704
BLAST score
                  171
                  3.0e-91
E value
Match length
                  267
% identity
                  95
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MCB17, complete sequence
                  145375
Seq. No.
                  LIB3168-058-P1-K1-D4
Seq. ID
Method
                  BLASTX
                  g3258637
NCBI GI
BLAST score
                  308
E value
                  3.0e-28
Match length
                  109
% identity
                  61
NCBI Description
                  (AF041050) 4-coumarate:CoA ligase [Populus tremuloides]
Seq. No.
                  145376
                  LIB3168-058-P1-K1-D5
Seq. ID
Method
                  BLASTX
                  g1169598
NCBI GI
BLAST score
                  442
E value
                  6.0e-44
                  94
Match length
                  86
% identity
NCBI Description
                  OMEGA-6 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
                   (DELTA-12 DESATURASE) >gi_438451 (L26296) delta-12
                  desaturase [Arabidopsis thaliana]
Seq. No.
                  145377
Seq. ID
                  LIB3168-058-P1-K1-D9
Method
                  BLASTX
                  g82051
NCBI GI
BLAST score
                  327
```

```
Match length
                  124
% identity
                  53
                  lipid body-associated membrane protein - carrot
NCBI Description
                  >gi_259453_bbs_117620 (S47635) lipid body membrane
                  protein=DC 59 [Daucus carota=carrots, var Juwarot, Peptide,
                  180 aa] [Daucus carota]
                  145378
Seq. No.
                  LIB3168-058-P1-K1-E1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g4220479
BLAST score
                  583
                  2.0e-60
E value
Match length
                  129
                  90
% identity
                  (AC006069) unknown protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145379
                  LIB3168-058-P1-K1-E12
Seq. ID
Method
                  BLASTX
                  g3152587
NCBI GI
BLAST score
                  300
                  6.0e-29
E value
                  92
Match length
                  74
% identity
                  (AC002986) Similar to CREB-binding protein homolog
NCBI Description
                  gb U88570 from D. melanogaster and contains similarity to
                  callus-associated protein gb U01961 from Nicotiana tabacum.
                  EST gb_W43427 comes from this gene. [Arabidopsis thaliana]
                  145380
Seq. No.
                  LIB3168-058-P1-K1-E2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
                  545
BLAST score
                  5.0e-56
E value
Match length
                  132
% identity
                  80
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145381
Seq. No.
Seq. ID
                  LIB3168-058-P1-K1-E3
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  536
                  6.0e-55
E value
Match length
                  130
% identity
                  80
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
```

Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit

NCBI Description

```
precursor [Arabidopsis thaliana]
                   145382
Seq. No.
                   LIB3168-058-P1-K1-E4
Seq. ID
Method
                   BLASTX
NCBI GI
                   q4454032
BLAST score
                   238
E value
                   5.0e-20
                   74
Match length
% identity
                   (AL035394) putative protein [Arabidopsis thaliana]
NCBI Description
                   145383
Seq. No.
                   LIB3168-058-P1-K1-E6
Seq. ID
                   BLASTX
Method
                   g112737
NCBI GI
BLAST score
                   251
E value
                   6.0e-22
                   48
Match length
                   98
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   145384
                   LIB3168-058-P1-K1-F10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g119150
BLAST score
                   267
                   6.0e-24
E value
Match length
                   56
                   91
% identity
                   ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
NCBI Description
                   >gi_82081_pir__S10507 translation elongation factor eEF-1
alpha chain - tomato >gi_19273_emb_CAA32618_ (X14449) EF
                   1-alpha (AA 1-448) [Lycopersicon esculentum]
                   >gi 295810_emb_CAA37212_ (X53043) elongation factor 1-alpha
                   [Lycopersicon esculentum]
Seq. No.
                   145385
Seq. ID
                   LIB3168-058-P1-K1-F11
Method
                   BLASTN
NCBI GI
                   q3355463
BLAST score
                   185
E value
                   1.0e-99
Match length
                   330
% identity
```

1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi 4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

Arabidopsis thaliana chromosome II BAC F12L6 genomic

sequence, complete sequence [Arabidopsis thaliana]

```
Seq. No.
                  145386
Seq. ID
                  LIB3168-058-P1-K1-F12
Method
                  BLASTX
                  g1628583
NCBI GI
                  590
BLAST score
                  3.0e-61
E value
                  126
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145387
Seq. No.
                  LIB3168-058-P1-K1-F2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3935169
BLAST score
                  322
                  7.0e-30
E value
                  68
Match length
                  96
% identity
                  (AC004557) F17L21.12 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145388
                  LIB3168-058-P1-K1-F3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3510343
BLAST score
                  235
E value
                  1.0e-129
                  317
Match length
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MJC20, complete sequence [Arabidopsis thaliana]
                  145389
Seq. No.
Seq. ID
                  LIB3168-058-P1-K1-F4
Method
                  BLASTX
                  g1169476
627
NCBI GI
BLAST score
E value
                  1.0e-65
Match length
                  120
                  100
% identity
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
NCBI Description
                  ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632)
                  vitronectin-like adhesion protein [Nicotiana tabacum]
                  145390
Seq. No.
                  LIB3168-058-P1-K1-F5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  554
                  5.0e-57
E value
                  134
Match length
                  81
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
```

1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870

```
precursor [Arabidopsis thaliana]
                  145391
Seq. No.
                  LIB3168-058-P1-K1-F6
Seq. ID
                  BLASTN
Method
                  g4199934
NCBI GI
                  230
BLAST score
                  1.0e-126
E value
                  378
Match length
% identity
                  Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  145392
Seq. No.
                  LIB3168-058-P1-K1-G11
Seq. ID
                  BLASTX
Method
                  q112737
NCBI GI
                  359
BLAST score
                  2.0e-34
E value
Match length
                  83
                  88
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145393
Seq. ID
                  LIB3168-058-P1-K1-G12
                  BLASTX
Method
                  g112737
NCBI GI
                  455
BLAST score
                  2.0e-45
E value
Match length
                  115
% identity .
                  77
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir_NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145394
Seq. No.
Seq. ID
                  LIB3168-058-P1-K1-G2
                  BLASTN
Method
                  g4159708
NCBI GI
BLAST score
                  287
                                                              ٠. .
                  1.0e-160
E value
Match length
                  315
                  98
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
```

(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi 4490710 emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

MKP6, complete sequence

Match length

117

```
Seq. No.
                  145395
Seq. ID
                  LIB3168-058-P1-K1-G3
                  BLASTX
Method
NCBI GI
                  q112682
                  556
BLAST score
                  3.0e-57
E value
                  131
Match length
                  81
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145396
Seq. No.
                  LIB3168-058-P1-K1-G4
Seq. ID
                  BLASTN
Method
NCBI GI
                  g16473
BLAST score
                  406
                  0.0e+00
E value
Match length
                  422
                  99
% identity
                  Arabidopsis thaliana 25S-18S ribosomal DNA spacer
NCBI Description
                  145397
Seq. No.
Seq. ID
                  ·LIB3168-058-P1-K1-G5
Method
                  BLASTN
NCBI GI
                  g2341023
BLAST score
                  71
E value
                  4.0e-32
                  119
Match length
                  95
% identity
                  Sequence of BAC F19P19 from Arabidopsis thaliana chromosome
NCBI Description

    complete sequence [Arabidopsis thaliana]

Seq. No.
                  145398
Seq. ID
                  LIB3168-058-P1-K1-G9
Method
                  BLASTX
NCBI GI
                  g112681
                  502
BLAST score
                  6.0e-51
E value
                  137
Match length
                  78
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145399
Seq. No.
Seq. ID
                  LIB3168-058-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g2129657
BLAST score
                  430
                  2.0e-42
E value
```

```
% identity
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014_emb_CAA90877_ (254164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (254165) oleosin
                    [Arabidopsis thaliana]
                   145400
Seq. No.
Seq. ID
                   LIB3168-058-P1-K1-H12
Method
                   BLASTX
NCBI GI -
                   g3785980
BLAST score
                   331
                   7.0e-31
E value
                   59
Match length
                   100
% identity
NCBI Description
                   (AC005560) hypothetical protein [Arabidopsis thaliana]
                   145401
Seq. No.
                   LIB3168-058-P1-K1-H2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   524
E value
                   1.0e-53
Match length
                   102
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145402
Seq. No.
                   LIB3168-058-P1-K1-H3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   252
E value
                   9.0e-22
Match length
                   49
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145403
Seq. ID
                   LIB3168-058-P1-K1-H4
Method
                   BLASTX
                   g1168258
NCBI GI
BLAST score
                   610
E value
                   1.0e-63
Match length
                   135
% identity
NCBI Description
                   ASPARTATE AMINOTRANSFERASE, CHLOROPLAST PRECURSOR
                   (TRANSAMINASE A) >gi_693692 (U15034) aspartate
                   aminotransferase [Arabidopsis thaliana]
Seq. No.
                   145404
                   LIB3168-058-P1-K1-H5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1709970
```

BLAST score

NCBI GI

g112681

```
E value
                  6.0e-14
                  50
Match length
                  78
% identity
                  60S RIBOSOMAL PROTEIN L10A
NCBI Description
                  145405
Seq. No.
                  LIB3168-058-P1-K1-H9
Seq. ID
                  BLASTN
Method
NCBI GI
                  g166609
BLAST score
                  113
                  8.0e-57
E value
Match length
                  290
                  84
% identity
                  A.thaliana at 2S1 gene encoding albumin 2S subunit 1,
NCBI Description
                  complete cds
                  145406
Seq. No.
                  LIB3168-059-P1-K1-A10
Seq. ID.
Method
                  BLASTX
NCBI GI
                  g480450
BLAST score
                  450
                  8.0e-45
E value
                  102
Match length
                  89
% identity
                  ketol-acid reductoisomerase (EC 1.1.1.86) - Arabidopsis
NCBI Description
                  thaliana >gi_402552_emb_CAA49506_ (X69880) ketol-acid
                  reductoisomerase [Arabidopsis thaliana]
                  145407
Seq. No.
                  LIB3168-059-P1-K1-A11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
                  595
BLAST score
                  7.0e-62
E value
                  138
Match length
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145408
                  LIB3168-059-P1-K1-A12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3885325
BLAST score
                  280
E value
                  1.0e-156
                  374
Match length
% identity
                  Arabidopsis thaliana chromosome II BAC T20P8 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  145409
Seq. No.
Seq. ID
                  LIB3168-059-P1-K1-A2
Method
                  BLASTX
```

```
BLAST score
                  51
                  1.0e-14
E value
                  89
Match length
                  60
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145410
                  LIB3168-059-P1-K1-A3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  597
                  3.0e-62
E value
Match length
                  114
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb_CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145411
                  LIB3168-059-P1-K1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3915961
BLAST score
                  677
                  2.0e-71
E value
Match length
                  143
% identity
                  HYPOTHETICAL 267 KD PROTEIN (ORF 2280)
NCBI Description
                  >qi 2924274 emb CAA77427 (Z00044) Ycf2 protein [Nicotiana
                  tabacum] >gi 2924285 emb CAA77438 (Z00044) hypothetical
                  protein [Nicotiana tabacum]
Seq. No.
                  145412
Seq. ID
                  LIB3168-059-P1-K1-A5
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  616
                  3.0e-64
E value
                  120
Match length
% identity
                  99
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145413
                  LIB3168-059-P1-K1-A6
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
```

100

% identity

```
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145414
Seq. No.
                  LIB3168-059-P1-K1-A7
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
                  648
BLAST score
                  4.0e-68 ·
E value
                  128
Match length
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145415
Seq. No.
                  LIB3168-059-P1-K1-A8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3451074
BLAST score
                  372
                  1.0e-35
E value
                  136
Match length
% identity
                  (AL031326) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145416
                  LIB3168-059-P1-K1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  686
                  2.0e-72
E value
                  128
Match length
                  98
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >qi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145417
                  LIB3168-059-P1-K1-B11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2633047
BLAST score
                  182
                  2.0e-13
E value
Match length
                  126
% identity
                  (Z99107) similar to metabolite transporter [Bacillus
NCBI Description
                  subtilis] >gi_2633058_emb_CAB12563_ (Z99108) similar to
                  metabolite transporter [Bacillus subtilis]
```

145418

Seq. No.

NCBI GI

```
LIB3168-059-P1-K1-B12
Seq. ID
Method
                  BLASTX
                  g112739
NCBI GI
BLAST score
                  446
                  2.0e-44
E value
                  126
Match length
                  72
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  145419
Seq. No.
                  LIB3168-059-P1-K1-B2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3402711
BLAST score
                  412
                  2.0e-40
E value
Match length
                  121
% identity
                  44
                   (AC004261) putative RNA-binding protein [Arabidopsis
NCBI Description
                  thaliana]
Seq. No.
                  145420
                  LIB3168-059-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1173345
BLAST score
                  80
                  6.0e-29
E value
Match length
                  116
% identity
                  SEDOHEPTULOSE-1,7-BISPHOSPHATASE CHLOROPLAST PRECURSOR
NCBI Description
                  (SEDOHEPTULOSE-BISPHOSPHATASE) (SBPASE) (SED(1,7)P2ASE)
                  >gi 1076403_pir__S51838 sedoheptulose-1,7-biphosphatase -
                  Arabidopsis thaliana >gi_786466_bbs_159034 (S74719)
                  sedoheptulose-1,7-bisphosphatase, SBPase {EC 3.1.3.37}
                   [Arabidopsis thaliana, C24, Peptide Chloroplast, 393 aa]
                   [Arabidopsis thaliana]
Seq. No.
                  145421
                  LIB3168-059-P1-K1-B4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2864607
                  250
BLAST score
                  1.0e-138
E value
Match length
                  428
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F10M6
                  (ESSAII project)
Seq. No.
                  145422
Seq. ID
                  LIB3168-059-P1-K1-B5
Method
                  BLASTX
```

خ.

g3451075

Match length

129

```
77
BLAST score
                   6.0e-23
E value
                  102
Match length
% identity
                  55
                  (AL031326) putative protein [Arabidopsis thaliana]
NCBI Description
                  145423
Seq. No.
                  LIB3168-059-P1-K1-B7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3449320
BLAST score
                  259
E value
                  1.0e-144
                   354
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MRB17, complete sequence [Arabidopsis thaliana]
                  145424
Seq. No.
                  LIB3168-059-P1-K1-B8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4159703
BLAST score
                  124
                   2.0e-63
E value
                  296
Match length
                  85
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K5F14, complete sequence
                   145425
Seq. No.
                  LIB3168-059-P1-K1-B9
Seq. ID
                  BLASTX
Method
                  g1490554
NCBI GI
                   304
BLAST score
                   1.0e-27
E value
                   63
Match length
% identity
NCBI Description
                   (U63633) S-adenosylmethionine decarboxylase [Arabidopsis
                   thaliana]
                   145426
Seq. No.
                   LIB3168-059-P1-K1-C1
Seq. ID
Method
                  BLASTN
                   g3540210
NCBI GI
BLAST score
                   218
                   1.0e-119
E value
                   309
Match length
                   93
% identity
                  Arabidopsis thaliana chromosome I BAC F5A8 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   145427
Seq. No.
                  LIB3168-059-P1-K1-C11
Seq. ID
Method
                   BLASTX
                   q112739
NCBI GI
BLAST score
                   461
                   4.0e-46
E value
```

3.5

```
% identity
                  73
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145428
                  LIB3168-059-P1-K1-C12
Seq. ID
Method
                  BLASTX
                  g2828267
NCBI GI
BLAST score
                  595
                  7.0e-62
E value
Match length
                  141
% identity
                  86
                  (Y14044) geranylgeranyl reductase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145429
                  LIB3168-059-P1-K1-C2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2851581
BLAST score
                  249
                  3.0e-21
E value
Match length
                  48
                  100
% identity
NCBI Description
                  DNA-DIRECTED RNA POLYMERASE BETA CHAIN
                  >qi 2196464 emb CAA74024 (Y13690) DNA-dependent RNA
                  polymerase subunit beta [Arabidopsis thaliana]
Seq. No.
                  145430
Seq. ID
                  LIB3168-059-P1-K1-C3
Method
                  BLASTX
NCBI GI
                  g464621
BLAST score
                  499
E value
                  1.0e-50
Match length
                  120
% identity
                  80
                  60S RIBOSOMAL PROTEIN L6 (YL16-LIKE) >gi 280374 pir S28586
NCBI Description
                  ribosomal protein ML16 - common ice plant
                  >qi 19539 emb CAA49175 (X69378) ribosomal protein YL16
                  [Mesembryanthemum crystallinum]
                  145431
Seq. No.
                  LIB3168-059-P1-K1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  225
E value
                  1.0e-18
Match length
                  61
% identity
                  75
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
```

(Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]

Seq. No.

Seq. ID

145436

LIB3168-059-P1-K1-D10

```
precursor [Arabidopsis thaliana]
                  145432
Seq. No.
                  LIB3168-059-P1-K1-C7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
                  542
BLAST score
E value
                  1.0e-55
                  141
Match length
% identity
                  78
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145433
Seq. No.
                  LIB3168-059-P1-K1-C8
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2827538
BLAST score
                  423
E value
                  0.0e + 00
                  423
Match length
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T12H17
NCBI Description
                  (ESSAII project)
                  145434
Seq. No.
Seq. ID
                  LIB3168-059-P1-K1-C9
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  571
E value
                  5.0e-59
Match length
                  137
                  81
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145435
Seq. ID
                  LIB3168-059-P1-K1-D1
Method
                  BLASTN
NCBI GI
                  g3080352
BLAST score
                  259
E value
                  1.0e-144
Match length
                  347
                 - 99
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T5K18
                  (ESSAII project)
```

>gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2

```
Method
                  BLASTX
                  g99688
NCBI GI
BLAST score
                  .724
E value
                  5.0e-77
                  138
Match length
                  100
% identity
                  translation elongation factor eEF-1 alpha chain (gene A4) -
NCBI Description
                  Arabidopsis thaliana >gi_295789_emb_CAA34456_ (X16432)
                  elongation factor 1-alpha [Arabidopsis thaliana]
                  145437
Seq. No.
                  LIB3168-059-P1-K1-D11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  595
E value
                  8.0e-62
Match length
                  138
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145438
                  LIB3168-059-P1-K1-D12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  611
                  1.0e-63
E value
                  120
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145439
Seq. ID
                  LIB3168-059-P1-K1-D2
Method
                  BLASTN
NCBI GI
                  g4689466
BLAST score
                  307
                  1.0e-172
E value
Match length
                  429
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC T23015 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  145440
                  LIB3168-059-P1-K1-D3
Seq. ID
Method
                  BLASTN
                  g3510347
NCBI GI
BLAST score
                  328
E value
                  0.0e + 00
Match length
                  404
                  95
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
```

MSJ11, complete sequence [Arabidopsis thaliana]

```
145441
Seq. No.
                  LIB3168-059-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204298
BLAST score
                  528
E value
                  5.0e-54
                  100
Match length
                  100
% identity
NCBI Description
                   (AC003027) lcl_prt_seq No definition line found
                   [Arabidopsis thaliana]
Seq. No.
                  145442
                  LIB3168-059-P1-K1-D5
Seq. ID
Method
                  BLASTX
                  g112741
NCBI GI
BLAST score
                  720
E value
                  2.0e-76
Match length
                  135
                  99
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145443
                  LIB3168-059-P1-K1-D6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2924279
BLAST score
                  260
                  7.0e-23
E value
Match length
                  81
                  68
% identity
NCBI Description
                  (Z00044) NADH dehydrogenase ND4 subunit [Nicotiana tabacum]
                  145444
Seq. No.
                  LIB3168-059-P1-K1-D8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g131336
BLAST score
                  339
E value
                  8.0e-32
Match length
                  73
% identity
                  93
NCBI Description
                  PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >gi_72715_pir__F2NT0P
                  photosystem II phosphoprotein psbH - common tobacco
                  chloroplast >gi_11857_emb_CAA77374_ (Z00044) PSII 10kD
                  phosphoprotein [Nicotiana tabacum]
                  >gi 225225_prf__1211235BG photosystem II 10kD
                  phosphoprotein [Nicotiana tabacum]
Seq. No.
                  145445
                  LIB3168-059-P1-K1-D9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2924257
```

```
39
BLAST score
                  1.0e-12
E value
                  131
Match length
                  82
% identity
NCBI Description
                  Tobacco chloroplast genome DNA
                  145446
Seq. No.
                  LIB3168-059-P1-K1-E1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
                  585
BLAST score
                  1.0e-60
E value
Match length
                  140
                  81
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145447
Seq. No.
                  LIB3168-059-P1-K1-E10
Seq. ID
                  BLASTX
Method
                  g1402904
NCBI GI
                  644
BLAST score
                  1.0e-67
E value
Match length
                  123
% identity
                  100
                  (X98313) peroxidase [Arabidopsis thaliana]
NCBI Description
                  145448
Seq. No.
                  LIB3168-059-P1-K1-E11
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  382
BLAST score
                  7.0e-37
E value
                  76
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145449
Seq. No.
                  LIB3168-059-P1-K1-E12
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
                  485
BLAST score
                  5.0e-49
E value
                  97
Match length
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145450
Seq. No.
                  LIB3168-059-P1-K1-E2
Seq. ID
```

BLASTX

Method

Seq. ID

Method

```
g112737
NCBI GI
                  299
BLAST score
E value
                  4.0e-27
Match length
                  129
% identity
                  52
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145451
Seq. ID
                  LIB3168-059-P1-K1-E3
Method
                  BLASTX
NCBI GI
                  q3023848
BLAST score
                  622
E value
                  5.0e-65
                  126
Match length
% identity
                  60
                  GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE
NCBI Description
                  PROTEIN (WD-40 REPEAT AUXIN-DEPENDENT PROTEIN ARCA)
                  >gi 2289095 (U77381) WD-40 repeat protein [Arabidopsis
                  thaliana]
Seq. No.
                  145452
                  LIB3168-059-P1-K1-E5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
                  69
BLAST score
E value
                  9.0e-35
                  83
Match length
                  90
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145453
                  LIB3168-059-P1-K1-E6
Seq. ID
Method
                  BLASTX
                  g112739
NCBI GI
BLAST score
                  480
                  2.0e-48
E value
                  132
Match length
                  73
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  145454
Seq. No.
```

LIB3168-059-P1-K1-E8

BLASTX

Seq. ID

```
NCBI GI
                  g1628583
BLAST score
                  625
                  2.0e-65
E value
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145455
                  LIB3168-059-P1-K1-E9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
                  120
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145456
                  LIB3168-059-P1-K1-F1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4406805
BLAST score
                  387
                  0.0e + 00
E value
Match length
                  418
                  98
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T27K22 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145457
                  LIB3168-059-P1-K1-F11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3128142
                  48
BLAST score
E value
                  7.0e-18
Match length
                  105
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MQN23, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145458
                  LIB3168-059-P1-K1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
% identity
                  100
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145459
Seq. No.
                  LIB3168-059-P1-K1-F3
```

Method

BLASTX

```
Method
                  BLASTX
NCBI GI
                  g1628583
                  456
BLAST score
                  8.0e-46
E value
                  96
Match length
                  94
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145460
                  LIB3168-059-P1-K1-F4
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
                  625
BLAST score
                  2.0e-65
E value
Match length
                  120
                  100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145461
Seq. No.
                  LIB3168-059-P1-K1-F6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g529353
BLAST score
                  373
E value
                  7.0e-36
Match length
                  110
                  57
% identity
                   (U12757) diphenol oxidase [Acer pseudoplatanus]
NCBI Description
                  145462
Seq. No.
                  LIB3168-059-P1-K1-F7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4512615
                  439
BLAST score ·
E value
                  8.0e-44
                  98
Match length
% identity
                   (AC004793) Strong similarity to gb_X59970 3-isopropylmalate
NCBI Description
                  dehydrogenase (IMDH) from Brassica napus. EST gb_F14478
                  comes from this gene. [Arabidopsis thaliana]
                  145463
Seq. No.
                  LIB3168-059-P1-K1-F8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4768831
                  160
BLAST score
                  8.0e-11
E value
Match length
                  90
% identity
                   (AF116827) unknown [Homo sapiens]
NCBI Description
                  145464
Seq. No.
                  LIB3168-059-P1-K1-F9
Seq. ID
```

```
NCBI GI
                  g4510397
BLAST score
                  740
                  8.0e-79
E value
Match length
                  141
                  100
% identity
                  (AC006587) putative preproMP27-MP32 [Arabidopsis thaliana]
NCBI Description
                  145465
Seq. No.
                  LIB3168-059-P1-K1-G1
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3913418
                  714
BLAST score
                  9.0e-76
E value
Match length
                  142
                  97
% identity
                  S-ADENOSYLMETHIONINE DECARBOXYLASE PROENZYME (ADOMETDC)
NCBI Description
                  (SAMDC) >gi 1531763 emb_CAA69073_ (Y07765)
                  S-adenosylmethionine decarboxylase [Arabidopsis thaliana]
                  145466
Seq. No.
                  LIB3168-059-P1-K1-G10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  541
                  2.0e-55
E value
                  117
Match length
                  91
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145467
                  LIB3168-059-P1-K1-G3
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  374
                  5.0e-36
E value
                  76
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145468
Seq. No.
                  LIB3168-059-P1-K1-G4
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
BLAST score
                  614
                  5.0e-64
E value
Match length
                  142
                  82
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  145469
                  LIB3168-059-P1-K1-G5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  653
                  1.0e-68
E value
                  137
Match length
                  89
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir_ NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  145470
Seq. No.
                  LIB3168-059-P1-K1-G6
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3510249
                  680
BLAST score
                  8.0e-72
E value
                  134
Match length
% identity
                  (AC005310) unknown protein [Arabidopsis thaliana]
NCBI Description
                  145471
Seq. No.
                  LIB3168-059-P1-K1-G7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4567249
BLAST score
                  551
                  1.0e-56
E value
Match length
                  119
% identity
                  (AC007070) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                  145472
Seq. No.
                  LIB3168-059-P1-K1-G9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2464905
BLAST score
                  480
                  2.0e-48
E value
                  131
Match length
% identity
                  (Z99708) minor allergen [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145473
                  LIB3168-059-P1-K1-H1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  627
E value
                  1.0e-65.
Match length
                  124
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

```
145474
Seq. No.
                   LIB3168-059-P1-K1-H10
Seq. ID
                   BLASTX
Method
                   q1628583
NCBI GI
                   529
BLAST score
                   3.0e-54
E value
                   112
Match length
                   92
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145475
Seq. No.
                   LIB3168-059-P1-K1-H11
Seq. ID
                   BLASTX
Method
                   g112737
NCBI GI
                   538
BLAST score
                   3.0e-55
E · value
                   116
Match length
                   88
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >qi 4490710 emb CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   145476
Seq. No.
                   LIB3168-059-P1-K1-H12
Seq. ID
                   BLASTX
Method
                   g1628583
NCBI GI
                   613
BLAST score
                   6.0e-64
E value
                   120
Match length
                   98
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145477
Seq. No.
                   LIB3168-059-P1-K1-H2
Seq. ID
                   BLASTX
Method
                   g2129657
NCBI GI
                   52
BLAST score
                   1.0e-29
E value
                   100
Match length
                   80
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
                   145478
Seq. No.
                   LIB3168-059-P1-K1-H4
Seq. ID
```

BLASTX

Method

```
g1628583
 NCBI GI
 BLAST score
                   162
                    5.0e-11
 E value
                   79
 Match length
                   100
 % identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
 NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145479
 Seq. No.
                   LIB3168-059-P1-K1-H7
 Seq. ID
 Method
                   BLASTX
 NCBI GI
                   g4204299
 BLAST score
                   514
                   2.0e-52
 E value
                   102
 Match length
% identity
                    99
                    (AC003027) lcl prt seq No definition line found
 NCBI Description
                    [Arabidopsis thaliana]
 Seq. No.
                   145480
 Seq. ID
                   LIB3168-059-P1-K1-H9
 Method
                   BLASTN
 NCBI GI
                   g2264304
                   77
 BLAST score
                   4.0e-35
 E value
                   464
 Match length
 % identity
                   73
 NCBI Description
                   Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                   MBG8, complete sequence [Arabidopsis thaliana]
                   145481
 Seq. No.
                   LIB3168-060-P1-K1-A1
 Seq. ID
 Method
                   BLASTX
                   g112681
 NCBI GI
 BLAST score
                   763
                   2.0e-81
 E value
                   143
 Match length
 % identity
                   99
                   12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
 NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145482
 Seq. No.
                   LIB3168-060-P1-K1-A12
 Seq. ID
 Method
                   BLASTX
                   g2497702
 NCBI GI
 BLAST score
                   187
 E value
                   5.0e-14
 Match length
                   113
 % identity
                   42
                   OUTER MEMBRANE LIPOPROTEIN BLC PRECURSOR
 NCBI Description
                   >gi 2121019 pir I40710 outer membrane lipoprotein -
                   Citrobacter freundii >gi 717136 (U21727) lipocalin
```

precursor [Citrobacter freundii]

BLAST score

676

```
Seq. No:
                  145483
                  LIB3168-060-P1-K1-A2
Seq. ID
                  BLASTX
Method
                  q1628583
NCBI GI
                  425
BLAST score
                  7.0e-42
E value
                  115
Match length
                  75
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145484
                  LIB3168-060-P1-K1-A3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
                  721
BLAST score
                  1.0e-76
E value
                  134
Match length
                  100
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >qi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145485
Seq. ID
                  LIB3168-060-P1-K1-A4
Method
                  BLASTX
NCBI GI
                  g1628583
                  204
BLAST score
                  2.0e-16
E value
                  69
Match length
                  62
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145486
Seq. No.
                  LIB3168-060-P1-K1-A5
Seq. ID
                  BLASTN
Method
                  g3928861
NCBI GI
BLAST score
                  386
                  0.0e+00
E value
                  433
Match length
                  97
% identity
NCBI Description
                  Arabidopsis thaliana disease resistance protein RPP8 (RPP8)
                  gene, complete cds
                  145487
Seq. No.
                  LIB3168-060-P1-K1-A6
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
```

```
2.0e-71
E value
                  132
Match length
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145488
Seq. No.
                  LIB3168-060-P1-K1-A9
Seq. ID
Method
                  BLASTX
                  q112737
NCBI GI
BLAST score
                  592
E value
                  2.0e-61
                  141
Match length
                  82
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145489
Seq. No.
                  LIB3168-060-P1-K1-B1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
                  474
BLAST score
                  1.0e-47
E value
                  131
Match length
                  73
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  145490
Seq. No.
                  LIB3168-060-P1-K1-B10
Seq. ID
Method
                  BLASTX
                  g3024526
NCBI GI
BLAST score
                  621
                  7.0e-65
E value
                  121
Match length
                  100
% identity
                  RAS-RELATED PROTEIN RAB11 >gi_2118459_pir__S59942 small
NCBI Description
                  GTP-binding protein Rabl1 - Arabidopsis thaliana >gi 451860
                  (L18883) small GTP-binding protein [Arabidopsis thaliana]
Seq. No.
                  145491
                  LIB3168-060-P1-K1-B11
Seq. ID
                  BLASTN
Method
NCBI GI
                  g4063756
BLAST score
                  245
                  1.0e-135
E value
```

```
274
Match length
                  97
% identity
                  Arabidopsis thaliana chromosome II BAC T9F8 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  LIB3168-060-P1-K1-B12
Seq. ID
                  BLASTX
Method
NCBI GI
                  q3702328
                                                       4.
                  514
BLAST score
E value
                  2.0e-52
                  93
Match length
                  100
% identity
                  (AC005397) putative cytochrome b5 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145493
Seq. ID
                  LIB3168-060-P1-K1-B2
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  187
                  2.0e-14
E value
                  60
Match length
                  67
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145494
Seq. No.
                  LIB3168-060-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  445
E value
                  3.0e-44
Match length
                  129
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145495
Seq. No.
                  LIB3168-060-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  625
                  2.0e-65
E value
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145496
Seq. No.
Seq. ID
                  LIB3168-060-P1-K1-B5
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  661
```

1.0e-69

E value

```
128
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145497
Seq. No.
                  LIB3168-060-P1-K1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  550
E value
                  1.0e-56
                  133
Match length
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145498
Seq. No.
                  LIB3168-060-P1-K1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  584
E value
                  1.0e-60
                  137
Match length
                  81
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145499
Seq. ID
                  LIB3168-060-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  567
E value
                  1.0e-58
Match length
                  141
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145500
Seq. ID
                  LIB3168-060-P1-K1-C1
Method
                  BLASTX
                  g112739
NCBI GI
BLAST score
                  357
E value
                  5.0e-34
Match length
                  109
                  68
% identity
```

NCBI Description 2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68854\_pir\_\_NWMU2 2S albumin 2 precursor - Arabidopsis thaliana >gi\_166615 (M22033) albumin 2S subunit 2 precursor [Arabidopsis thaliana] >gi\_395205\_emb\_CAA80871\_(Z24745) 2S albumin isoform 2 [Arabidopsis thaliana] >gi\_4490711\_emb\_CAB38845.1\_(AL035680) NWMU2-2S albumin 2 precursor [Arabidopsis thaliana]

Seq. No. 145501

Seq. ID LIB3168-060-P1-K1-C10

Method BLASTX
NCBI GI g112741
BLAST score 721
E value 1.0e-76
Match length 134
% identity 100

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 145502

Seq. ID LIB3168-060-P1-K1-C11

Method BLASTN
NCBI GI g343498
BLAST score 237
E value 1.0e-130
Match length 311

Match length 311 % identity 96

NCBI Description Tobacco chloroplast Arg-tRNA and Asn-tRNA 4.5S and 5S rRNA

genes

Seq. No. 145503

Seq. ID LIB3168-060-P1-K1-C4

Method BLASTX
NCBI GI g112741
BLAST score 275
E value 2.0e-24
Match length 123
% identity 52

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 145504

Seq. ID LIB3168-060-P1-K1-C5

Method BLASTX
NCBI GI g4263771
BLAST score 300
E value 3.0e-27
Match length 76

NCBI GI

g112739

```
% identity
                  71
                  (AC006218) putative nonspecific lipid-transfer protein
NCBI Description
                  precursor [Arabidopsis thaliana]
                  >gi_4726121_gb_AAD28321.1_AC006436_12 (AC006436) putative
                  nonspecific lipid-transfer protein precursor [Arabidopsis
                  thaliana]
                  145505
Seq. No.
                  LIB3168-060-P1-K1-C6
Seq. ID
Method
                  BLASTN
                  g4097693
NCBI GI
                  72
BLAST score
E value
                  1.0e-32
Match length
                  152
                  88
% identity
NCBI Description
                  Arabidopsis thaliana prohibitin 1 (Atphb1) gene, complete
                  145506
Seq. No.
                  LIB3168-060-P1-K1-C7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1107501
                  400
BLAST score
                  5.0e-39
E value
Match length
                  99
% identity
NCBI Description
                  (X91954) orf [Arabidopsis thaliana] >gi_3367530 (AC004392)
                  Match to gb_X91954 orf gene product from A. thaliana. ESTs
                  gb_Z17604, gb_H76594, gb_AA597972 and gb_AA394824 come from
                  this gene. [Arabidopsis thaliana]
                  145507
Seq. No.
                  LIB3168-060-P1-K1-C8
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  655
E value
                  6.0e-69
Match length
                  128
                  98
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145508
                  LIB3168-060-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4490736
BLAST score
                  695
E value
                  1.0e-73
Match length
                  140
                  64
% identity
                  (AL035708) putative protein [Arabidopsis thaliana]
NCBI Description
                  145509
Seq. No.
                  LIB3168-060-P1-K1-D1
Seq. ID
Method
                  BLASTX
```

Method

NCBI GI

BLASTN

q2244829

```
BLAST score
                   416
                   7.0e-41
E value
Match length
                   119
                   71
% identity
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                   2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
Seq. No.
                   145510
                   LIB3168-060-P1-K1-D10
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112741
BLAST score
                   716
                   5.0e-76
E value
                   133
Match length
                   100
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
                   145511
Seq. No.
                   LIB3168-060-P1-K1-D12
Seq. ID
                   BLASTX
Method
NCBI GI
                   g1628583
BLAST score
                   429
                   2.0e-42
E value
Match length
                   116
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145512
                   LIB3168-060-P1-K1-D2
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2129657
                   623
BLAST score
E value
                   4.0e-65
                   126
Match length
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   145513
                   LIB3168-060-P1-K1-D3
Seq. ID
```

Method

NCBI GI

BLASTX

g112681

```
BLAST score
                   306
E value
                   1.0e-172
Match length
                   366
% identity
                   Arabidopsis thaliana DNA chromosome 4, ESSA I contig
NCBI Description
                   fragment No
                   145514
Seq. No.
Seq. ID
                   LIB3168-060-P1-K1-D4
Method
                   BLASTN
NCBI GI
                   g3150396
BLAST score
                   371
E value
                   0.0e+00
Match length
                   379
                   99
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T27E13 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
                   145515
Seq. No.
                   LIB3168-060-P1-K1-D5
Seq. ID
Method
                   BLASTX.
NCBI GI
                   g1628583
BLAST score
                   532
                   2.0e-54
E value
Match length
                   134
# identity
                   78
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145516
Seq. ID
                   LIB3168-060-P1-K1-D7
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   464
                   1.0e-46
E value
Match length
                   120
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145517
Seq. ID
                   LIB3168-060-P1-K1-D8
Method
                   BLASTN
NCBI GI
                   q2564048
BLAST score
                   402
E value
                   0.0e + 00
Match length
                   422
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MKD15, complete sequence [Arabidopsis thaliana]
Seq. No.
                   145518
                  LIB3168-060-P1-K1-D9
Seq. ID
```

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Seq. ID

```
BLAST score
                  475
E value
                  8.0e-48
Match length
                  130
                  77
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145519
Seq. No.
Seq. ID
                  LIB3168-060-P1-K1-E1
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  338
E value
                  7.0e-32
Match length
                  105
                  67
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE .
NCBI Description
                  PROTEIN) >gi 68854 pir_NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711 emb_CAB38845.1_ (AL035680) NWMU2-2S_albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145520
                  LIB3168-060-P1-K1-E11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  580
E value
                  4.0e-60
                  139
Match length
                  81
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145521
                  LIB3168-060-P1-K1-E2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1706749
BLAST score
                  527
E value
                  7.0e-54
                  110
Match length
                  97
% identity
                  3-OXOACYL-[ACYL-CARRIER-PROTEIN] SYNTHASE I PRECURSOR
NCBI Description
                  (BETA-KETOACYL-ACP SYNTHASE I) (KAS I) >gi_780814 (U24177)
                  3-ketoacyl-acyl carrier protein synthase I [Arabidopsis
                  thaliana]
                  145522
Seq. No.
```

LIB3168-060-P1-K1-E3

```
Method
                  BLASTN
                  g3128142
NCBI GI
BLAST score
                  159
E value
                  2.0e-84
                  225
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MQN23, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145523
Seq. ID
                  LIB3168-060-P1-K1-E4
Method
                  BLASTN
NCBI GI
                  a4512656
BLAST score
                  165
E value
                  1.0e-87
                  373
Match length
                  89
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F7D19 genomic
                  sequence, complete sequence
Seq. No.
                  145524
                  LIB3168-060-P1-K1-E5
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112682
BLAST score
                  551
E value
                  1.0e-56
Match length
                  130
                  81
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145525
Seq. ID
                  LIB3168-060-P1-K1-E6
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  524
E value
                  1.0e-53
Match length
                  108
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145526
Seq. ID
                  LIB3168-060-P1-K1-E7
Method
                  BLASTX
                  g133438
NCBI GI
BLAST score
                  630
E value
                  6.0e-66
Match length
                  133
% identity
                  86
NCBI Description
                 DNA-DIRECTED RNA POLYMERASE BETA' CHAIN
                  >gi_81504_pir__B29959 DNA-directed RNA polymerase (EC
2.7.7.6) beta' chain - spinach chloroplast >gi_295120
```

Seq. No.

Seq. ID

NCBI GI

E value

BLAST score

Match length

Method

145531

BLASTX

g1628583 318

2.0e-29

76

LIB3168-060-P1-K1-F12

## (M55297) RNA polymerase [Spinacia oleracea] 145527 Seq. No. LIB3168-060-P1-K1-E8 Seq. ID Method BLASTN NCBI GI g3212102 BLAST score 365 0.0e + 00E value Match length 368 100 % identity NCBI Description Arabidopsis Thaliana BAC F6A4, Chromosome IV, near 60.5 cM, complete sequence [Arabidopsis thaliana] 145528 Seq. No. LIB3168-060-P1-K1-E9 Seq. ID Method BLASTX g112743 NCBI GI 635 BLAST score 2.0e-66 E value 135 Match length 88 % identity 2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi\_68856\_pir\_\_NWMU4 2S albumin 4 precursor -Arabidopsis thaliana >gi\_166617 (M22033) albumin 2S subunit 4 precursor [Arabidopsis thaliana] >gi\_395202\_emb\_CAA80869\_ (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana] >gi 4490713 emb\_CAB38847.1\_ (AL035680) NWMU4-2S albumin 4 precursor [Arabidopsis thaliana] 145529 Seq. No. LIB3168-060-P1-K1-F1 Seq. ID BLASTX Method g4581520 NCBI GI 260 BLAST score 1.0e-22 E value 122 Match length 46 % identity (AL049559) hypothetical protein [Schizosaccharomyces pombe] NCBI Description Seq. No. 145530 LIB3168-060-P1-K1-F11 Seq. ID BLASTN Method NCBI GI q2264321 68 BLAST score 3.0e-30 E value 132 Match length 100 % identity Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description MXM12, complete sequence [Arabidopsis thaliana]

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NCBI Description

```
100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145532
Seq. No.
                  LIB3168-060-P1-K1-F2
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112741
BLAST score
                  718
                  3.0e-76
E value
Match length
                  135
                  99
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145533
                  LIB3168-060-P1-K1-F3
Seq. ID
                  BLASTX
Method
                  q112739
NCBI GI
BLAST score
                  467
E value
                  8.0e-47
                  131
Match length
                  73
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871_
   M2 (2)
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145534
                  LIB3168-060-P1-K1-F4
Seq. ID
Method
                  BLASTN
                  q3056579
NCBI GI
                                                                        18"
BLAST score
                  419
E value
                  0.0e + 00
                  419
Match length
                  46
% identity
                  Arabidopsis thaliana BAC T1F9 chromosome 1, complete
NCBI Description
                  sequence [Arabidopsis thaliana]
Seq. No.
                  145535
Seq. ID
                  LIB3168-060-P1-K1-F5
                  BLASTX
Method
NCBI GI
                  g1345973
BLAST score
                  498
E value
                  2.0e-50
Match length
                  108
% identity
                  83
```

OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM

>gi\_541882\_pir\_\_JQ2335 omega-3 fatty acid desaturase (EC
1.14.99.-) CF3 - Arabidopsis thaliana >gi\_408483 (L22931)
omega-3 fatty acid desaturase [Arabidopsis thaliana]
>gi\_471091\_dbj\_BAA04505\_ (D17579) fatty acid desaturase
[Arabidopsis thaliana] >gi\_1197795\_dbj\_BAA05514\_ (D26508)
microsomal omega-3 fatty acid desaturase [Arabidopsis thaliana] >gi\_3420053 (AC004680) omega-3 fatty acid
desaturase [Arabidopsis thaliana]

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145536
Seq. No.
                  LIB3168-060-P1-K1-F6
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  606
E value
                  4.0e-63
Match length
                  120
                  97
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >qi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145537
Seq. ID
                  LIB3168-060-P1-K1-F7
Method
                  BLASTX
NCBI GI
                  g99751
BLAST score
                  260
                  3.0e-29
E value
Match length
                  74
% identity
                  80
                  phosphoprotein phosphatase (EC 3.1.3.16) 1A catalytic chain
NCBI Description
                  - Arabidopsis thaliana >gi 16433 emb CAA78153 (Z12163)
                  protein phosphatase 1A [Arabidopsis thaliana]
Seq. No.
                  145538
                  LIB3168-060-P1-K1-F8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q3386613
BLAST score
                  538
E value
                  4.0e-55
Match length
                  141
% identity
                  78
                   (AC004665) putative ATP-dependent RNA helicase [Arabidopsis
NCBI Description
                  thaliana]
                  145539
Seq. No.
                  LIB3168-060-P1-K1-F9
Seq. ID
                  BLASTX
Method
                  g3445201
NCBI GI
BLAST score
                  723
                  7.0e-77
E value
Match length
                  138
% identity
                   (AC004786) unknown protein [Arabidopsis thaliana]
NCBI Description
```

145540

BLASTX

LIB3168-060-P1-K1-G10

Seq. No.

Seq. ID

Method

```
NCBI GI
                  q2129659
                  446
BLAST score
                  2.0e-44
E value
Match length
                  113
                  82
% identity
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                  (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                  145541
                  LIB3168-060-P1-K1-G11
Seq. ID
                  BLASTX
Method
                  g112739
NCBI GI
BLAST score
                  416
                  7.0e-41
E value
                  119
Match length
                  71
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  145542
Seq. No.
                  LIB3168-060-P1-K1-G12
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  630
                  5.0e-66
E value
                  121
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145543
                  LIB3168-060-P1-K1-G2
Seq. ID
Method .
                  BLASTX
NCBI GI
                  g112682
                  591
BLAST score
                  2.0e-61
E value
                  137
Match length
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145544
                  LIB3168-060-P1-K1-G3
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  545
                  2.0e-57
E value
                  138
Match length
```

Seq. No.

```
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Sea. No.
                  145545
                  LIB3168-060-P1-K1-G4
Seq. ID
                  BLASTN
Method
NCBI GI
                  g3292807
BLAST score
                  421
                  0.0e+00
E value
Match length
                  429
                  100
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F7H19
                  (ESSAII project)
Seq. No.
                  145546
                  LIB3168-060-P1-K1-G5
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                  595
E value
                  6.0e-62
Match length
                  116
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145547
Seq. ID
                  LIB3168-060-P1-K1-G6
                  BLASTX
Method
NCBI GI
                  q112681
BLAST score
                  538
E value
                  4.0e-55
Match length
                  139
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145548
                  LIB3168-060-P1-K1-G8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  611
E value
                  8.0e-64
Match length
                  119
% identity -
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145549
```

```
Seq. ID
                  LIB3168-060-P1-K1-G9
Method
                  BLASTX
NCBI GI
                  g4204265
BLAST score
                  441
                  8.0e-44
E value
                  139
Match length
% identity
                  65
                  (AC005223) 45643 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145550
                  LIB3168-060-P1-K1-H10
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  656
                  5.0e-69
E value
Match length
                  137
                  92
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >qi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145551
                  LIB3168-060-P1-K1-H2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  608
E value
                  2.0e-63
Match length
                  121
% identity
                  94
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsīs thaliana
                  >qi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145552
Seq. ID
                  LIB3168-060-P1-K1-H4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  404
                  2.0e-39
E value
Match length
                  112
% identity
                  72
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145553
                  LIB3168-060-P1-K1-H5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
                  642
BLAST score
                  2.0e-67
E value
Match length
                  126
```

98

% identity

```
(U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145554
Seq. No.
                   LIB3168-060-P1-K1-H7
Seq. ID
                   BLASTX
Method
                   g1352347
NCBI GI
                   91
BLAST score *
                   9.0e-33
E value
                   116
Match length
                   74
% identity
                   ELONGATION FACTOR 1-BETA A1 (EF-1-BETA)
NCBI Description
                   >gi_480620_pir__S37103 translation elongation factor eEF-1
beta-A1 chain - Arabidopsis thaliana (cv. Colombia)
                   >gi_398608_emb_CAA52751_ (X74733) elongation factor-1 beta
                   Al [Arabidopsis thaliana]
Seq. No.
                   145555
                   LIB3168-060-P1-K1-H8
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112739
                   383
BLAST score
                   5.0e-37
E value
                   115
Match length
% identity
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                   2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
                   145556
Seq. No.
                   LIB3168-061-P1-K1-A1
Seq. ID
                   BLASTN
Method
NCBI GI
                   g4191771
BLAST score
                   51
                   4.0e-20
E value
                   91
Match length
% identity
                   Arabidopsis thaliana chromosome II BAC F3P11 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
                   145557
Seq. No.
                   LIB3168-061-P1-K1-A10
Seq. ID
                   BLASTX
Method
NCBI GI
                   g112741
                   433
BLAST score
                   5.0e-43
E value
                   104
Match length
                   81
% identity
NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
```

3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

BLAST score

E value

99

1.0e-48

```
precursor [Arabidopsis thaliana]
                   145558
Seq. No.
                   LIB3168-061-P1-K1-A11
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1854445
BLAST score
                   406
È value
                   9.0e-40
Match length
                   103
% identity
NCBI Description
                   (D83971) CPRD14 protein [Vigna unguiculata]
Seq. No.
                   145559
Seq. ID
                   LIB3168-061-P1-K1-A2
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   436
E value
                   1.0e-43
Match length
                   87
                   94
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   145560
                   LIB3168-061-P1-K1-A3
Seq. ID
Method
                   BLASTX
                   g1628583
NCBI GI
BLAST score
                   350
E value
                   4.0e-33
Match length
                   115
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145561
                   LIB3168-061-P1-K1-A6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g4204299
                   72
BLAST score
                   1.3e+00
E value
Match length
                   120
% identity
NCBI Description
                   (AC003027) 1cl prt seq No definition line found
                   [Arabidopsis thaliana]
                   145562
Seq. No.
Seq. ID
                   LIB3168-061-P1-K1-A7
Method
                   BLASTN
                   g166609
NCBI GI
```

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3

```
Match length
                  177
% identity
                  88
                  A.thaliana at2S1 gene encoding albumin 2S subunit 1,
NCBI Description
                  complete cds
                  145563
Seq. No.
                  LIB3168-061-P1-K1-A9
Seq. ID
                  BLASTX
Method
                  g4538979
NCBI GI
BLAST score
                  454
                  2.0e-45
E value
                  89
Match length
                  96
% identity
                  (AL049487) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145564
                  LIB3168-061-P1-K1-B11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129918
BLAST score
                  308
                  3.0e-28
E value
                  70
Match length
% identity
                  81
                  BPF-1 protein - parsley >gi 396197 emb CAA48413 (X68337)
NCBI Description
                  BPF-1 [Petroselinum crispum] >gi 441310 emb CAA44518
                  (X62653) BPF-1 [Petroselinum crispum]
Seq. No.
                  145565
Seq. ID
                  LIB3168-061-P1-K1-B12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  191
E value
                  1.0e-14
Match length
                  86
% identity
                  50
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145566
Seq. ID
                  LIB3168-061-P1-K1-B2
Method
                  BLASTX
NCBI GI
                  g4056502
BLAST score
                  602
E value
                  9.0e-63
                  122
Match length
                  96
% identity
                  (AC005896) 40S ribosomal protein S5 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145567
                  LIB3168-061-P1-K1-B4
Seq. ID
Method
                  BLASTN
                  g4097693
NCBI GI
                  49
BLAST score
                  4.0e-19
E value
Match length
                  103
```

**强**点。

84

% identity

NCBI GI

```
NCBI Description Arabidopsis thaliana prohibitin 1 (Atphb1) gene, complete
                  cds
                  145568
Seq. No.
                  LIB3168-061-P1-K1-B8
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  552
                  8.0e-57
E value
Match length
                  135
                  84
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145569
Seq. No.
                  LIB3168-061-P1-K1-B9
Seq. ID
                  BLASTX
Method
                  g1107501
NCBI GI
BLAST score
                  312
                  7.0e-29
E value
                  71
Match length
                  89
% identity
                  (X91954) orf [Arabidopsis thaliana] >gi_3367530 (AC004392)
NCBI Description
                  Match to gb X91954 orf gene product from A. thaliana. ESTs
                  gb_Z17604, gb_H76594, gb_AA597972 and gb_AA394824 come from
                  this gene. [Arabidopsis thaliana]
                  145570
Seq. No.
                  LIB3168-061-P1-K1-C1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  260
                  8.0e-23
E value
                  55
Match length
                  93
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_ S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145571
                  LIB3168-061-P1-K1-C10
Seq. ID
                  BLASTN
Method
                  g3046852
NCBI GI
                  64
BLAST score
E value
                  7.0e-28
                  157
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MQJ16, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145572
                  LIB3168-061-P1-K1-C11
Seq. ID
Method
                  BLASTX
```

g1628583

Seq. ID

```
BLAST score
                   473
E value
                   2.0e-47
Match length
                   99
% identity
                   92
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145573
Seq. ID
                   LIB3168-061-P1-K1-C2
Method
                   BLASTN
NCBI GI
                   g16231
BLAST score
                   74
                   6.0e-34
E value
Match length
                   94
% identity
NCBI Description
                   Arabidopsis CRA1 gene for 12S seed storage protein
                   >gi 166675 gb M37247 ATHCRA1AA A.thaliana 12S storage
                   protein CRA1 gene, exons 1-4
Seq. No.
                   145574
                   LIB3168-061-P1-K1-C3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2078350
BLAST score
                   161·
E value
                   2.0e-11
Match length
                   70
% identity
                   54
                  (U95923) transaldolase [Solanum tuberosum]
NCBI Description
                   145575
Seq. No.
Seq. ID
                   LIB3168-061-P1-K1-C4
Method
                   BLASTN
NCBI GI
                   g336274
BLAST score
                   91
E value
                   8.0e-44
Match length
                   204
% identity
                  Alnus incana chloroplast 23S rRNA, 4.5S rRNA, 5S rRNA,
NCBI Description
                   tRNA-Arg, and tRNA-Asn genes
                   145576
Seq. No.
Seq. ID
                   LIB3168-061-P1-K1-C6
Method
                   BLASTX
                   g112681
NCBI GI
BLAST score
                   148
E value
                   5.0e-10
Match length
                   33
                   85
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145577
Seq. No.
```

LIB3168-061-P1-K1-C8

Seq. No.

Seq. ID

145581

LIB3168-061-P1-K1-D2

```
Method
                  BLASTX
NCBI GI
                  g112739
                  421
BLAST score
                  2.0e-41
E value
Match length
                  115
                  75
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                . 145578
Seq. No.
Seq. ID
                  LIB3168-061-P1-K1-C9
Method
                  BLASTN
                  g3449313
NCBI GI
BLAST score
                  70
E value
                  1.0e-31
Match length
                  94
                  94
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K21P3, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145579
                  LIB3168-061-P1-K1-D1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  53
E value
                  1.0e-14
Match length
                  57
% identity
                  84
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsīs thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145580
Seq. ID
                  LIB3168-061-P1-K1-D11 .
Method
                  BLASTX
NCBI GI
                  g112737
                  304
BLAST score
E value
                  2.0e-28
                  69
Match length
                  83
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
```

```
BLASTX
Method
NCBI GI
                   g4415923
BLAST score
                   273
E value
                   1.0e-24
Match length
                   76
% identity
NCBI Description
                   (AC006282) putative glucosyl transferase [Arabidopsis
                   145582
Seq. No.
Seq. ID
                   LIB3168-061-P1-K1-D4
Method
                   BLASTN
NCBI GI
                   q4490701
BLAST score
                   103
E value
                   7.0e-51
Match length
                  187
                   87
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone T24A18
                   (ESSA project)
Seq. No.
                   145583
                   LIB3168-061-P1-K1-D6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   186
E value
                   2.0e-14
Match length
                   37
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145584
                   LIB3168-061-P1-K1-D9
Seq. ID
Method
                   BLASTN
NCBI GI
                   g166609
BLAST score
                   108
                   8.0e-54
E value
                   206
Match length
% identity
NCBI Description
                  A.thaliana at 2S1 gene encoding albumin 2S subunit 1,
                   complete cds
Seq. No.
                   145585
                  LIB3168-061-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4204299
BLAST score
                   456
E value
                   9.0e-46
Match length
                  104
% identity
                  89
                   (AC003027) lcl_prt_seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                  145586
                  LIB3168-061-P1-K1-E12
Seq. ID
Method
                  BLASTN
```

```
g16231
NCBI GI
BLAST score
                  40
                  3.0e-13
E value
                  77
Match length
                  86
% identity
                  Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                  >gi 166675 gb M37247 ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  145587
Seq. No.
                  LIB3168-061-P1-K1-F1
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4589445
BLAST score
                  248
                  1.0e-137
E value
                  298
Match length
                  96
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MWL2, complete sequence
                  145588
Seq. No.
Seq. ID
                  LIB3168-061-P1-K1-F10
Method
                  BLASTN
                  g16236
NCBI GI
BLAST score
                  73
                  2.0e-33
E value
Match length
                  91
% identity
                  Arabidopsis CRB gene for 12S seed storage protein
NCBI Description
                  >gi 166677 gb M37248 ATHCRBAA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
Seq. No.
                  145589
                  LIB3168-061-P1-K1-F11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129641
BLAST score
                  658
                  3.0e-69
E value
Match length
                  123
                  97
% identity
                  major latex protein type 1 - Arabidopsis thaliana
NCBI Description
                  >gi 1107493 emb CAA63026 (X91960) major latex protein
                  typel [Arabidopsis thaliana]
                  145590
Seq. No.
                  LIB3168-061-P1-K1-F2
Seq. ID
Method
                  BLASTN
                  g166609
NCBI GI
BLAST score
                  106
                  7.0e-53
E value
Match length
                  186
% identity
                  A.thaliana at 2S1 gene encoding albumin 2S subunit 1,
NCBI Description
                  complete cds
Seq. No.
                  145591
                  LIB3168-061-P1-K1-F6
Seq. ID
```

```
Method
                  BLASTN
NCBI GI
                  g2264311
BLAST score
                  42
                  5.0e-15
E value
                  93
Match length
                  84
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MLN1, complete sequence [Arabidopsis thaliana]
                  145592
Seq. No.
                  LIB3168-061-P1-K1-F8
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  559
                  1.0e-57
E value
                  121
Match length
                  87
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145593
Seq. No.
Seq. ID
                  LIB3168-061-P1-K1-F9
Method
                  BLASTX
NCBI GI
                  q137465
BLAST score
                  455
                  1.0e-45
E value
Match length
                  97
                  95
% identity
                  VACUOLAR ATP SYNTHASE SUBUNIT B (V-ATPASE B SUBUNIT)
NCBI Description
                  (V-ATPASE 57 KD SUBUNIT) >gi 81637 pir A31886
                  H+-transporting ATPase (EC 3.6.1.35) 57K chain -
                  Arabidopsis thaliana >gi_166627 (J04185) nucleotide-binding
                  subunit of vacuolar ATPase [Arabidopsis thaliana]
Seq. No.
                  145594
Seq. ID
                  LIB3168-061-P1-K1-G10
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  338
                  8.0e-32
E value
                  83
Match length
                  80
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >qi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145595
                  LIB3168-061-P1-K1-G11
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4097693
                  48
BLAST score
                  1.0e-18
E value
```

```
102
Match length
% identity
                  84
                  Arabidopsis thaliana prohibitin 1 (Atphb1) gene, complete
NCBI Description
                  145596
Seq. No.
                  LIB3168-061-P1-K1-G2
Seq. ID
                  BLASTN
Method
NCBI GI
                  g166609
BLAST score
                  32
                  8.0e-09
E value
Match length
                  46
                  91
% identity
                  A.thaliana at2S1 gene encoding albumin 2S subunit 1,
NCBI Description
                  complete cds
Seq. No.
                  145597
                  LIB3168-061-P1-K1-G3
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
                  203
BLAST score
E value
                  3.0e-16
                  63
Match length
                  67
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145598
Seq. No.
                  LIB3168-061-P1-K1-G4
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  386
                  6.0e-38
E value
                  72
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145599
Seq. No.
                  LIB3168-061-P1-K1-G6
Seq. ID
                  BLASTN
Method
                  g4097693
NCBI GI
                  35
BLAST score
                  8.0e-11
E value
                  102
Match length
% identity
                  Arabidopsis thaliana prohibitin 1 (Atphb1) gene, complete
NCBI Description
                  cds
                  145600
Seq. No.
                  LIB3168-061-P1-K1-H1
Seq. ID
Method
                  BLASTN
                  g16236
NCBI GI
BLAST score
                  56
                  3.0e-23
E value
```

```
Match length
                  ጸበ
                  99
% identity
                  Arabidopsis CRB gene for 12S seed storage protein
NCBI Description
                  >gi 166677 gb_M37248_ATHCRBAA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  145601
Seq. No.
                  LIB3168-061-P1-K1-H2
Seq. ID
                  BLASTX
Method
                  q112681
NCBI GI
                  186
BLAST score
                  3.0e-14
E value
                  38
Match length
                  95
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145602
Seq. No.
                  LIB3168-061-P1-K1-H8
Seq. ID
                  BLASTN
Method
                  g3449326
NCBI GI
                  90
BLAST score .
                  4.0e-43
E value
                  190
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K19M22, complete sequence [Arabidopsis thaliana]
                  145603
Seq. No.
                  LIB3168-062-P1-K1-A1
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
                  504
BLAST score
                  4.0e-51
E value
                  94
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145604
Seq. No.
                  LIB3168-062-P1-K1-A10
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
                  430
BLAST score
                  1.0e-42
E value
                  108
Match length
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__$08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  145605
                  LIB3168-062-P1-K1-A11
Seq. ID
                  BLASTN
Method
                  g2160132
NCBI GI
                  35
BLAST score
                  2.0e-10
E value
                  106
Match length
                  51
% identity
                  Sequence of BAC F19K23 from Arabidopsis thaliana chromosome
NCBI Description
                  1, complete sequence [Arabidopsis thaliana]
                  145606
Seq. No.
                  LIB3168-062-P1-K1-A12
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  423
E value
                  1.0e-41
                  143
Match length
                  67
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145607
Seq. No.
                  LIB3168-062-P1-K1-A2
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3510347
BLAST score
                  353
                  0.0e+00
E value
Match length
                   364
                   61
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MSJ11, complete sequence [Arabidopsis thaliana]
Seq. No.
                   145608
                  LIB3168-062-P1-K1-A3
Seq. ID
Method
                  BLASTX
                  g2244819
NCBI GI
BLAST score
                  184
                   1.0e-13
E value
                  72
Match length
% identity
                   (Z97336) germin type 2 [Arabidopsis thaliana]
NCBI Description
                  145609
Seq. No.
                  LIB3168-062-P1-K1-A4
Seq. ID
Method
                  BLASTX
                  g2961373
NCBI GI
BLAST score
                   238
                   2.0e-20
E value
                   86
Match length
                   56
% identity
                   (AL022141) putative disease resistance protein [Arabidopsis
NCBI Description
```

thaliana]

Seq. ID

BLASTX

Method

```
145610
Seq. No.
Seq. ID
                  LIB3168-062-P1-K1-A5
                  BLASTX
Method
NCBI GI
                  g112739
BLAST score
                  440
                  1.0e-43
E value
Match length
                  124
% identity
                  72
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi 395205 emb CAA80871
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >qi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145611
Seq. ID
                  LIB3168-062-P1-K1-A6
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  544
                  5.0e-56
E value
Match length
                  116
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >qi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145612
Seq. ID
                  LIB3168-062-P1-K1-A8
Method
                  BLASTN
NCBI GI
                  q4512656
BLAST score
                  72
                  3.0e-32
E value
Match length
                  267
% identity
                  Arabidopsis thaliana chromosome II BAC F7D19 genomic
NCBI Description
                  sequence, complete sequence
Seq. No.
                  145613
Seq. ID
                  LIB3168-062-P1-K1-A9
Method
                  BLASTN
NCBI GI
                  g2264311
BLAST score
                  52
                  8.0e-21
E value
Match length
                  103
% identity
                  84
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MLN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145614
                  LIB3168-062-P1-K1-B1
```

```
NCBI GI
                  g1628583
BLAST score
                  409
                  6.0e-40
E value
                  117
Match length
                  74
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145615
Seq. No.
                  LIB3168-062-P1-K1-B10
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
BLAST score
                  47
E value
                  2.0e-56
                  127
Match length
                  91
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145616
                  LIB3168-062-P1-K1-B11
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  188
E value
                  1.0e-14
                  36
Match length
                  94
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145617
                  LIB3168-062-P1-K1-B12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2586125
BLAST score
                  330
E value
                  5.0e-31
                  93
Match length
% identity
                  (U89512) b-keto acyl reductase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145618
                  LIB3168-062-P1-K1-B2
Seq. ID
Method
                  BLASTN
                  g1628582
NCBI GI
BLAST score
                  131
                  2.0e-67
E value
Match length
                  178
% identity
                  55
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                  (ATCRU3) gene, complete cds
```

145619

Seq. No.

```
Seq. ID
                  LIB3168-062-P1-K1-B3
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  525
                  1.0e-53
E value
Match length
                  119
                  87
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749)2312S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145620
                  LIB3168-062-P1-K1-B4
Seq. ID
Method
                  BLASTN
                  q3650026
NCBI GI
BLAST score
                  157
                  5.0e-83
E value
Match length
                  273
                  84
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T26I2O genomic
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145621
                  LIB3168-062-P1-K1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  447
E value
                  1.0e-44
Match length
                  107
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145622
Seq. ID
                  LIB3168-062-P1-K1-B7
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  535
                  7.0e-55
E value
Match length
                  112
                  93
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  tha\overline{\text{liana}} >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145623
                  LIB3168-062-P1-K1-B8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g1354465
BLAST score
                  59
E value
                  1.0e-24
Match length
                  185
                  83
% identity
                  Arabidopsis thaliana U1 snRNP 70K truncated protein mRNA,
NCBI Description
```

```
long alternatively spliced transcript, complete cds
                  145624
Seq. No.
                  LIB3168-062-P1-K1-C1
Seq. ID
                  BLASTX
Method
                  g112681
NCBI GI
                  587
BLAST score
                  7.0e-61
E value
                  142
Match length
                  84
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_ S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145625
Seq. No.
                  LIB3168-062-P1-K1-C10
Seq. ID
                  BLASTX
Method
                  q112737
NCBI GI
                  479
BLAST score
                  2.0e-48
E value
                  106
Match length
                  85
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145626
                  LIB3168-062-P1-K1-C12
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
                  522
BLAST score
                  3.0e-53
E value
                  118
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145627
Seq. No.
                  LIB3168-062-P1-K1-C4
Seq. ID
                  BLASTN
Method
                  g4580732
NCBI GI
                  41
BLAST score
                  6.0e-14
E value
                  112
Match length
% identity
                  Genomic sequence for Arabidopsis thaliana BAC F5J5,
NCBI Description
```

complete sequence

LIB3168-062-P1-K1-C5

145628

Seq. No.

Seq. ID

Method

BLASTN

```
Method
                  BLASTN
NCBI GI
                  q2956689
BLAST score
                  46
                  7.0e-17
E value
                  173
Match length
                  77
% identity
                  Arabidopsis thaliana mRNA for PSBY (Ycf32-related
NCBI Description
                  chloroplast thylakoid membrane proteins)
                  145629
Seq. No.
                  LIB3168-062-P1-K1-C7
Seq. ID
Method
                  BLASTN
                  g3869066
NCBI GI
BLAST score
                  213
                  1.0e-116
E value
Match length
                  328
                  92
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MBM17, complete sequence [Arabidopsis thaliana]
                  145630
Seq. No.
                  LIB3168-062-P1-K1-C9
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
BLAST score
                  81
                  1.0e-37
E value
Match length
                  181
% identity
                  83
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                   (ESSAII project)
                  145631
Seq. No.
                  LIB3168-062-P1-K1-D1
Seq. ID
Method
                  BLASTN
                  g2842474
NCBI GI
BLAST score
                  153
                  2.0e-80
E value
Match length
                  387
% identity
                  58
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                   (ESSAII project)
Seq. No.
                  145632
Seq. ID
                  LIB3168-062-P1-K1-D10
Method
                  BLASTX
NCBI GI
                  g1628583
                  564
BLAST score
                  3.0e-58
E value
Match length
                  144
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145633
                  LIB3168-062-P1-K1-D11
Seq. ID
```

1 20 B

```
g16231
NCBI GI
BLAST score
                  58
                  2.0e-24
E value
Match length
                  111
% identity
                  85
                  Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                  >gi 166675_gb_M37247_ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
Seq. No.
                  145634
Seq. ID
                  LIB3168-062-P1-K1-D12
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  488
E value
                  3.0e-49
Match length
                  92
                  99
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145635
                  LIB3168-062-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g113617
BLAST score
                  302
E value
                  2.0e-27
                  60
Match length
                  98
% identity
                  FRUCTOSE-BISPHOSPHATE ALDOLASE, CYTOPLASMIC ISOZYME
NCBI Description
                  >gi_68199_pir__ADMU fructose-bisphosphate aldolase (EC
                  4.1.2.13) - Arabidopsis thaliana >gi 16284 emb CAA37226
                  (X53058) fructose 1,6-diphosphate aldolase [Arabidopsis
                  thaliana]
                  145636
Seq. No.
Seq. ID
                  LIB3168-062-P1-K1-D3
Method
                  BLASTN
NCBI GI
                  g3449331
BLAST score
                  296
E value
                  1.0e-166
Match length
                  308
% identity
                  99
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MNC17, complete sequence [Arabidopsis thaliana]
                  145637
Seq. No.
Seq. ID
                  LIB3168-062-P1-K1-D4
Method
                  BLASTX
NCBI GI
                  g3738315
                  387
BLAST score
                  2.0e-37
E value
Match length
                  105
% identity
NCBI Description
                  (AC005170) unknown protein [Arabidopsis thaliana]
```

145638

Seq. No.

ž ..

BLAST score

572

```
Seq. ID
                  LIB3168-062-P1-K1-D5
                  BLASTX
Method
                  g4454010
NCBI GI
                  372
BLAST score
                  8.0e-36
E value
                  89
Match length
                  72
% identity
                  (AL035396) putative protein [Arabidopsis thaliana]
NCBI Description
                  145639
Seq. No. .
                  LIB3168-062-P1-K1-D6
Seq. ID
                  BLASTX
Method
                  g112737
NCBI GI
BLAST score
                  526
                  7.0e-54
E value
                  116
Match length
                  85
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145640
                  LIB3168-062-P1-K1-D7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
                  80
BLAST score
                  6.0e-37
E value
                  284
Match length
                  69
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
                  145641
Seq. No.
                  LIB3168-062-P1-K1-D8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
                  421
BLAST score
                  2.0e-41
E value
                  134
Match length
                  63
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi 166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145642
                  LIB3168-062-P1-K1-E1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
```

NCBI GI

```
E value
                  3.0e-59
Match length
                  126
% identity
                  87
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145643
Seq. No.
Seq. ID
                  LIB3168-062-P1-K1-E11
Method
                  BLASTN
NCBI GI
                  q1628582
                  87
BLAST score
E value
                  3.0e-41
Match length
                  288
                  84
% identity
NCBI Description
                  Arabidopsis thaliana 12S cruciferin seed storage protein
                  (ATCRU3) gene, complete cds
Seq. No.
                  145644
Seq. ID
                  LIB3168-062-P1-K1-E12
Method
                  BLASTX
NCBI GI
                  g119350
BLAST score
                  570
                  7.0e-59
E value
Match length
                  120
                  92
% identity
                  ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE)
NCBI Description
                  (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) >gi_81608_pir__JQ1187
                  phosphopyruvate hydratase (EC 4.2.1.11) - Arabidopsis
                  thaliana >gi_16271_emb_CAA41114_ (X58107) enolase
                  [Arabidopsis thaliana]
                  >gi_4581151_gb_AAD24635.1_AC006919_13 (AC006919) enolase
                  (2-phospho-D-gTycerate hydroylase); identical to P25696
                  [Arabidopsis thaliana]
Seq. No.
                  145645
Seq. ID
                  LIB3168-062-P1-K1-E2
Method
                  BLASTX
NCBI GI
                  q112739
BLAST score
                  468
E value
                  7.0e-47
Match length
                  133
                  71
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205 emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145646
Seq. ID
                  LIB3168-062-P1-K1-E5
Method
                  BLASTX
```

q2129642

```
BLAST score
                  672
                  8.0e-71
E value
Match length
                  132
                  93
% identity
NCBI Description
                  major latex protein type 3 - Arabidopsis thaliana
                  >gi 1107495 emb CAA63027 (X91961) major latex protein
                  type3 [Arabidopsis thaliana]
                  145647
Seq. No.
                  LIB3168-062-P1-K1-E6
Seq. ID
Method
                  BLASTN
                  g4314374
NCBI GI
BLAST score
                  111
                  5.0e-56
E value
                  138
Match length
% identity
                  95
                  Arabidopsis thaliana chromosome II BAC F10A12 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145648
                  LIB3168-062-P1-K1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  527
                  7.0e-54
E value
Match length
                  102
% identity
                  98
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145649
                  LIB3168-062-P1-K1-E8
Seq. ID
Method
                  BLASTN
                  q1628582
NCBI GI
BLAST score
                  98
                  6.0e-48
E value
Match length
                  172
% identity
                  86
NCBI Description
                  Arabidopsis thaliana 12S cruciferin seed storage protein
                  (ATCRU3) gene, complete cds
                  145650
Seq. No.
                  LIB3168-062-P1-K1-E9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
                  533
BLAST score
                  1.0e-54
E value
                  115
Match length
% identity
                  88
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
```

```
145651
Seq. No.
                  LIB3168-062-P1-K1-F1
Seq. ID
                  BLASTX
Method
                  g4204299
NCBI GI
                  383
BLAST score
                  2.0e-37
E value
                  78
Match length
                  95
% identity
                  (AC003027) lcl_prt_seq No definition line found
NCBI Description
                  [Arabidopsis thaliana]
Seq. No.
                  145652
                  LIB3168-062-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129659
                  292
BLAST score
                  2.0e-26
E value
                  92
Match length
% identity
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                  (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                  145653
                  LIB3168-062-P1-K1-F11
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2264311
BLAST score
                  52
E value
                  1.0e-20
                  120
Match length
                  82
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MLN1, complete sequence [Arabidopsis thaliana]
                  145654
Seq. No.
                  LIB3168-062-P1-K1-F12
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  506
                  3.0e-51
E value
Match length
                  101
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145655
Seq. No.
                  LIB3168-062-P1-K1-F3
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2842474
                  66
BLAST score
                  8.0e-29
E value
Match length
                  110
                  59
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
```

```
Seq. No.
                  145656
                  LIB3168-062-P1-K1-F4
Seq. ID
Method
                  BLASTN
                  g2264311
NCBI GI
                  77
BLAST score
                  3.0e-35
E value
                  266
Match length
                  84
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MLN1, complete sequence [Arabidopsis thaliana]
                  145657
Seq. No.
                  LIB3168-062-P1-K1-F5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
                  489
BLAST score
                  2.0e-49
E value
                  97
Match length
                  96
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145658
Seq. No.
                  LIB3168-062-P1-K1-F7
Seq. ID
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  512
E value
                  4.0e-52
Match length
                  117
                  89
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145659
Seq. No.
Seq. ID
                  LIB3168-062-P1-K1-G10
                  BLASTN
Method
                  g4079614
NCBI GI
BLAST score
                  60
                  3.0e-25
E value
Match length
                  116
% identity
                  84
                  Arabidopsis thaliana chromosome I BAC F21M11 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145660
                  LIB3168-062-P1-K1-G12
Seq. ID
Method
                  BLASTX
NCBI GI ...
                  q1628583
BLAST score
                  552
                  9.0e-57
E value
Match length
                  119
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

145661 Seq. No. LIB3168-062-P1-K1-G4 Seq. ID BLASTX Method g1628583 NCBI GI 459 BLAST score 7.0e-46 E value 120 Match length 76 % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 145662 Seq. No. LIB3168-062-P1-K1-G5 Seq. ID BLASTN Method g1628582 NCBI GI 53 BLAST score 6.0e-21 E value Match length 264 78 % identity Arabidopsis thaliana 12S cruciferin seed storage protein NCBI Description (ATCRU3) gene, complete cds Seq. No. 145663 Seq. ID LIB3168-062-P1-K1-G6 Method BLASTX NCBI GI g112741 523 BLAST score 2.0e-53 E value 119 Match length 83 % identity 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana] Seq. No. 145664 LIB3168-062-P1-K1-G7 Seq. ID BLASTX Method NCBI GI g1628583 BLAST score 48 1.0e-16 E value 74 Match length % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 145665

Seq. ID LIB3168-062-P1-K1-G8

Method BLASTN

```
NCBI GI
                  g2842474
BLAST score
                  72
E value
                  1.0e-32
Match length
                  175
                  81
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
                  (ESSAII project)
                  145666
Seq. No.
                  LIB3168-062-P1-K1-G9
Seq. ID
Method
                  BLASTN
                  g4757414
NCBI GI
BLAST score
                  323
                  0.0e + 00
E value
Match length
                  330
% identity
                  99
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MYF24, complete sequence
                  145667
Seq. No.
                  LIB3168-062-P1-K1-H1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2160151
BLAST score
                  436
E value
                  2.0e-43
Match length
                  90
% identity
                  96
NCBI Description
                  (AC000375) Strong similarity to Brassica aspartic protease
                  (gb X77260). [Arabidopsis thaliana]
Seq. No.
                  145668
                  LIB3168-062-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  526
                  6.0e-54
E value
                  104
Match length
                  96
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145669
                  LIB3168-062-P1-K1-H3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1076366
BLAST score
                  585
E value
                  8.0e-61
Match length
                  111
% identity
                  peptidylprolyl isomerase (EC 5.2.1.8) - Arabidopsis
NCBI Description
                  thaliana >gi 460968 (U07276) peptidyl-prolyl cis-trans
                  isomerase [Arabidopsis thaliana] >gi 992643 (U32186)
                  cyclophilin [Arabidopsis thaliana]
```

>gi\_1091580\_prf\_\_2021266A peptidyl-Pro cis-trans isomerase

Method

NCBI GI

BLASTX

g112681

## [Arabidopsis thaliana]

```
Seq. No.
                   145670
Seq. ID
                   LIB3168-062-P1-K1-H5
                   BLASTN
Method
NCBI GI
                   g4510392
BLAST score
                   73
                   5.0e-33
E value
Match length
                   254
                   78
% identity
NCBI Description
                   Arabidopsis thaliana chromosome II BAC T17D12 genomic
                   sequence, complete sequence
                   145671
Seq. No.
Seq. ID
                   LIB3168-062-P1-K1-H6
Method
                   BLASTX
                   q1628583
NCBI GI
                   375
BLAST score
E value
                   3.0e-36
Match length
                   114
% identity
                   69
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145672
Seq. No.
Seq. ID
                   LIB3168-062-P1-K1-H7
Method
                   BLASTX
                   g112737
NCBI GI
BLAST score
                   242
E value
                   1.0e-20
Match length
                   82
                   60
% identity
NCBI Description
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1__(AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   145673
                   LIB3168-062-P1-K1-H8
Seq. ID
Method
                   BLASTN
NCBI GI
                  g987013
BLAST score
                   47
E value
                   4.0e-18
Match length
                   47
                   100
% identity
NCBI · Description
                  A.thaliana mRNA for oleosin (isoform; 841 bp)
                   >gi_987015_emb_Z54165_ATOLEOSN3 A.thaliana mRNA for oleosin
                   (isoform; 841 bp)
Seq. No.
                   145674
                  LIB3168-064-P1-K1-A1
Seq. ID
```

BLAST score

94

```
BLAST score
                  322
                  5.0e-30
E value
Match length
                  103
% identity
                  68
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145675
                  LIB3168-064-P1-K1-A11
Seq. ID
                  BLASTX
Method
                  q112737
NCBI GI
BLAST score
                  584
E value
                  2.0e-60
                  142
Match length
% identity
                  79
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE `
NCBI Description
                  PROTEIN) >qi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >qi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145676
Seq. ID
                  LIB3168-064-P1-K1-A4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  515
                  2.0e-52
E value
Match length
                  137
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145677
                  LIB3168-064-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  612
E value
                  8.0e-64
Match length
                  140
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145678
                  LIB3168-064-P1-K1-A6
Seq. ID
Method
                  BLASTN
NCBI GI
                  q1628582
```

```
E value
                    2.0e-45
                    230
  Match length
  % identity
                    60
                    Arabidopsis thaliana 12S cruciferin seed storage protein
  NCBI Description
                    (ATCRU3) gene, complete cds
                    145679
 `Seq. No.
                    LIB3168-064-P1-K1-A9
  Seq. ID
                    BLASTX
  Method
                    g2119840
  NCBI GI
  BLAST score
                    137
                    1.0e-08
  E value
                    54
  Match length
                    57
  % identity
                    photosystem I protein A2 - garden snapdragon chloroplast
  NCBI Description
                    145680
  Seq. No.
                    LIB3168-064-P1-K1-B1
  Seq. ID
                    BLASTN
Method
                    g2264311
  NCBI GI
                    56
  BLAST score
                    7.0e-23
  E value
  Match length
                    147
  % identity
                    82
                    Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
  NCBI Description
                    MLN1, complete sequence [Arabidopsis thaliana]
  Seq. No.
                    145681
  Seq. ID
                    LIB3168-064-P1-K1-B10
  Method
                    BLASTN
                    g2264311
  NCBI GI
  BLAST score
                    51
                    5.0e-20
  E value
  Match length
                    121
                    83
  % identity
                    Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
  NCBI Description
                    MLN1, complete sequence [Arabidopsis thaliana]
  Seq. No.
                    145682
                    LIB3168-064-P1-K1-B11
  Seq. ID
  Method
                    BLASTN
                    g4097693
  NCBI GI
  BLAST score
                    54
                    1.0e-21
  E value
  Match length
                    108
  % identity
                    Arabidopsis thaliana prohibitin 1 (Atphb1) gene, complete
  NCBI Description
                    cds
  Seq. No.
                    145683
                    LIB3168-064-P1-K1-B2
  Seq. ID
  Method
                    BLASTN
  NCBI GI
                    q2605713
                    40
  BLAST score
                    1.0e-13
  E value
  Match length
                    77
```

84

% identity

```
Arabidopsis thaliana beta-tonoplast intrinsic protein
NCBI Description
                   (beta-TIP) mRNA, complete cds
                  145684
Seq. No.
                  LIB3168-064-P1-K1-B4
Seq. ID
                  BLASTN
Method
                  g4757414
NCBI GI
                  324
BLAST score
                  0.0e+00
E value
                  339
Match length
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MYF24, complete sequence
Seq. No.
                  145685
                  LIB3168-064-P1-K1-B5
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
                  488
BLAST score
                  2.0e-49
E value
                  92
Match length
                  99
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145686
Seq. No.
Seq. ID
                  LIB3168-064-P1-K1-B7
Method
                  BLASTN
NCBI GI
                  g16231
BLAST score
                  57
                  2.0e-23
E value
                  140
Match length
% identity
                  82
                  Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                  >gi 166675 gb M37247 ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
Seq. No.
                  145687
Seq. ID
                  LIB3168-064-P1-K1-B9
Method
                  BLASTX
NCBI GI
                  g1107501
BLAST score
                  328
                  1.0e-30
E value
                  99
Match length
% identity
                   (X91954) orf [Arabidopsis thaliana] >gi_3367530 (AC004392)
NCBI Description
                  Match to gb_X91954 orf gene product from A. thaliana. ESTs
                  gb_Z17604, gb_H76594, gb_AA597972 and gb_AA394824 come from
                  this gene. [Arabidopsis thaliana]
Seq. No.
                  145688
Seq. ID
                  LIB3168-064-P1-K1-C1
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  190
```

6.0e-15

E value

```
Match length
                  35
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145689
Seq. No.
                  LIB3168-064-P1-K1-C10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g1628582
                  52
BLAST score
                  6.0e-21
E value
                  103
Match length
                  84
% identity
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                  (ATCRU3) gene, complete cds
Seq. No.
                  145690
                  LIB3168-064-P1-K1-C11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
BLAST score
                  547
E value
                  4.0e-56
                  139
Match length
                  77
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145691
                  LIB3168-064-P1-K1-C12
Seq. ID
Method
                  BLASTX
                  g2781394
NCBI GI
BLAST score
                  477
E value
                  5.0e-48
Match length
                  96
% identity
                  100
                  (U70424) O-methyltransferase 1 [Arabidopsis thaliana]
NCBI Description
                  145692
Seq. No.
                  LIB3168-064-P1-K1-C2
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
                  707
BLAST score
                  6.0e-75
E value
Match length
                  144
                  94
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494 (X14313) 12S seed
```

storage protein [Arabidopsis thaliana]

```
Seq. No.
                  145693
                  LIB3168-064-P1-K1-C3
Seq. ID
Method
                  BLASTX
                  g132074
NCBI GI
                  534
BLAST score
                  7.0e-55
E value
                  103
Match length
                  95
% identity
                  RIBULOSE BISPHOSPHATE CARBOXYLASE SMALL CHAIN 1A PRECURSOR
NCBI Description
                  (RUBISCO SMALL SUBUNIT 1A) >gi_68063_pir__RKMUA1
                  ribulose-bisphosphate carboxylase (EC 4.1.1.39) small chain
                  Al precursor - Arabidopsis thaliana
                  145694
Seq. No.
                  LIB3168-064-P1-K1-C4
Seq. ID
Method
                  BLASTN
                  q166609
NCBI GI
BLAST score
                  130
                  5.0e-67
E value
                  249
Match length
                  86
% identity
                  A.thaliana at 2S1 gene encoding albumin 2S subunit 1,
NCBI Description
                  complete cds
Seq. No.
                  145695
                  LIB3168-064-P1-K1-C5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3366536
BLAST score
                  50
E value
                  3.0e-19
Match length
                  184
% identity
                  Genomic sequence for Arabidopsis thaliana BAC T25N2O,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  145696
                  LIB3168-064-P1-K1-C7
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4454587
BLAST score
                  156
E value
                  2.0e-82
Match length
                  191
                  96
% identity
                  Arabidopsis thaliana BAC F21A20 from chromosome V near 61
NCBI Description
                  cM, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145697
                  LIB3168-064-P1-K1-C8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g166609
BLAST score
                  124
E value
                  2.0e-63
Match length
                  269
% identity
                  A.thaliana at 2S1 gene encoding albumin 2S subunit 1,
NCBI Description
```

complete cds

```
Seq. No.
                  145698
                  LIB3168-064-P1-K1-C9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  477
BLAST score
                  5.0e-48
E value
                  98 .
Match length
                  92
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145699
Seq. No.
                  LIB3168-064-P1-K1-D1
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2264311
                  177
BLAST score
E value
                  4.0e-95
                  228
Match length
                  94
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MLN1, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145700
                  LIB3168-064-P1-K1-D10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3047100
BLAST score
                  280
                  1.0e-156
E value
Match length
                  355
                  94
% identity
                  Arabidopsis thaliana BAC F6N23
NCBI Description
Seq. No.
                  145701
                  LIB3168-064-P1-K1-D11
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
BLAST score
                  62
E value
                  2.0e-35
Match length
                  128
% identity
                  67
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145702
                  LIB3168-064-P1-K1-D12
Seq. ID
Method
                  BLASTX
                  q461841
NCBI GI
BLAST score
                  163
                  2.0e-11
E value
                  73
Match length
% identity
                  53
                  CRUCIFERIN CRU4 PRECURSOR (11S GLOBULIN) (12S STORAGE
NCBI Description
                  PROTEIN)
```

145703

Seq. No.

```
Seq. ID
                  LIB3168-064-P1-K1-D2
Method
                  BLASTX
NCBI GI
                  q112741
BLAST score
                  558
                  1.0e-57
E value
                  103
Match length
                  100
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi 395201 emb CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145704
                  LIB3168-064-P1-K1-D3
Seq. ID
Method .
                  BLASTN
NCBI GI
                  q4263774
BLAST score
                  78
E value
                  6.0e-36
Match length
                  234
                  82
% identity
                  Arabidopsis thaliana chromosome II BAC T20F21 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145705
Seq. ID
                  LIB3168-064-P1-K1-D4
Method
                  BLASTN
NCBI GI
                  g3449322
BLAST score
                  135
                  5.0e-70
E value
Match length
                  171
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MXC17, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145706
Seq. ID
                  LIB3168-064-P1-K1-D5
Method
                  BLASTX
NCBI GI
                  g1170203
BLAST score
                  417
E value
                  5.0e-41
Match length
                  114
% identity
                  74
                  GLUTAMYL-TRNA REDUCTASE 1 PRECURSOR (GLUTR) >gi 454359
NCBI Description
                  (U03774) glutamyl-tRNA reductase [Arabidopsis thaliana]
                  145707
Seq. No.
Seq. ID
                  LIB3168-064-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  510
                  6.0e-52
E value
Match length
                  101
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

```
thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
cruciferin seed storage protein [Arabidopsis thaliana]
145708
LIB3168-064-P1-K1-D8
```

BLASTX Method NCBI GI g1628583 BLAST score 446 1.0e-44 E value. Match length 93 89 % identity

Seq. No. Seq. ID

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

cruciferin seed storage protein [Arabidopsis thaliana]

145709 Seq. No.

LIB3168-064-P1-K1-D9 Seq. ID

Method BLASTN g4519195 NCBI GI 68 BLAST score 9.0e-30 E value 93 Match length 99 , % identity

Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone: NCBI Description

MQC12, complete sequence

Seq. No. 145710

LIB3168-064-P1-K1-E10 Seq. ID

BLASTN Method NCBI GI g2564050 BLAST score 222 1.0e-121 E value 343 Match length

93 % identity

Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: NCBI Description

MUA22, complete sequence [Arabidopsis thaliana]

Seq. No. 145711

LIB3168-064-P1-K1-E11 Seq. ID

Method BLASTX NCBI GI g112682 BLAST score 590 E value 3.0e-61 126 Match length 87 % identity

12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510 NCBI Description

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana]  $>gi_808937_emb_CAA32494_ (X14313)$  12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 145712

LIB3168-064-P1-K1-E12 Seq. ID

Method BLASTX g112682 NCBI GI BLAST score 679 E value 1.0e-71

```
138
Match length
% identity
                  91
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145713
Seq. No.
                  LIB3168-064-P1-K1-E2
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4159699
BLAST score
                  345
                  0.0e+00
E value
                  353
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K16E1, complete sequence
                  145714
Seq. No.
                  LIB3168-064-P1-K1-E3
Seq. ID
Method
                  BLASTN
                  g1628582
NCBI GI
                  99
BLAST score
E value
                  1.0e-48
                  174
Match length
% identity
                  86
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                  (ATCRU3) gene, complete cds
                  145715
Seq. No.
Seq. ID
                  LIB3168-064-P1-K1-E4
                  BLASTN
Method
                  g16231
NCBI GI
                  56
BLAST score
                  8:0e-23
E value
Match length
                  107
% identity
                  84
                  Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                  >gi 166675 gb_M37247_ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
Seq. No.
                  145716
                  LIB3168-064-P1-K1-E5
Seq. ID
Method
                  BLASTN
NCBI GI
                  g1628582
BLAST score
                  110
E value
                  6.0e-55
                  272
Match length
% identity
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                   (ATCRU3) gene, complete cds
Seq. No.
                  145717
                  LIB3168-064-P1-K1-E6
Seq. ID
Method
                  BLASTN
```

g16231

NCBI GI

Seq. ID

```
BLAST score
                  87
                  2.0e-41
E value
                  241
Match length
                  81
% identity
NCBI Description
                  Arabidopsis CRA1 gene for 12S seed storage protein
                  >gi 166675_gb M37247_ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  145718
Seq. No.
Seq. ID
                  LIB3168-064-P1-K1-E7
                  BLASTN
Method
NCBI GI
                  g2264303
BLAST score
                  196
                  1.0e-106
E value
                  325
Match length
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MBB18, complete sequence [Arabidopsis thaliana]
                  145719
Seq. No.
Seq. ID
                  LIB3168-064-P1-K1-E9
Method
                  BLASTN
NCBI GI
                  g395203
BLAST score
                  137
                  5.0e-71
E value
Match: length
                  246
% identity
                  63
                  A.thaliana 2S albumin gene isoforms 1 and 2, complete CDS's
NCBI Description
Seq. No.
                  145720
                  LIB3168-064-P1-K1-F10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
BLAST score
                  524
E value
                  1.0e-53
Match length
                  119
                  87
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145721
Seq. No.
Seq. ID
                  LIB3168-064-P1-K1-F11
                  BLASTX
Method
                  g112681
NCBI GI
                  209
BLAST score
                  6.0e-17
E value
Match length
                  78
                  62
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145722
Seq. No.
```

LIB3168-064-P1-K1-F12

```
Method
                  BLASTX
NCBI GI
                  g1628583
                  271
BLAST score
                  7.0e-24
E value
                  60
Match length
                  87
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145723
Seq. No.
Seq. ID
                  LIB3168-064-P1-K1-F9
Method
                  BLASTX
NCBI GI
                  g2497886
                  287
BLAST score
                  9.0e-26
E value
                  53
Match length
                  98
% identity
                  METALLOTHIONEIN-LIKE PROTEIN 2B (MT-2B)
NCBI Description
                  >gi 1361999 pir S57862 metallothionein 2b - Arabidopsis
                  thaliana >gi 1086463 (U11256) metallothionein [Arabidopsis
                  thaliana]
                  145724
Seq. No.
                  LIB3168-064-P1-K1-G10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g131143
BLAST score
                  583
E value
                  2.0e-60
Match length
                  153
                  77
% identity
                  PHOTOSYSTEM I P700 CHLOROPHYLL A APOPROTEIN A1
NCBI Description
                  >gi_72670_pir__A1NTP7 photosystem I P700 apoprotein A1 -
                  common tobacco chloroplast >gi_11830_emb_CAA77352 (Z00044)
                  PSI P700 apoprotein Al [Nicotiana tabacum]
                  >gi_225198_prf 1211235AC photosystem I P700 apoprotein A1
                  [Nicotiana tabacum]
Seq. No.
                  145725
                  LIB3168-064-P1-K1-G11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2851508
BLAST score
                  481
                  1.0e-48
E value
                  101
Match length
% identity
                  60S RIBOSOMAL PROTEIN L21 >gi 2160162 (AC000132) Similar to
NCBI Description
                  ribosomal protein L21 (gb_L38826). ESTs
                  gb_AA395597,gb_ATTS5197 come from this gene. [Arabidopsis
                  thaliana] >gi_3482935 (AC003970) Putative ribosomal protein
                  L21 [Arabidopsis thaliana]
                  145726
Seq. No.
                  LIB3168-064-P1-K1-G12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4199934
BLAST score
                  107
```

Method

BLASTN

```
E value
                   2.0e-53
Match length
                   158
                   92
% identity
                   Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   145727
Seq. No.
                   LIB3168-064-P1-K1-G2
Seq. ID
Method
                   BLASTN
                   g4584519
NCBI GI
BLAST score
                   35
E value
                   1.0e-10
Match length
                   76
% identity
                   83
NCBI Description
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F11C18
                   (ESSA project)
                   145728
Seq. No.
                   LIB3168-064-P1-K1-G5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   360
                   2.0e-34
E value
                   92
Match length
                   78
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494 (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145729
Seq. No.
Seq. ID
                   LIB3168-064-P1-K1-G6
                   BLASTN
Method
NCBI GI
                   g16231
BLAST score
                   85
                   4.0e-40
E value
Match length
                   160
% identity
                   92
                   Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                   >gi 166675 gb_M37247_ATHCRA1AA A.thaliana 12S storage
                   protein CRA1 gene, exons 1-4
Seq. No.
                   145730
                   LIB3168-064-P1-K1-G7
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2129659
BLAST score
                   166
E value
                   4.0e-12
Match length
                   36
                   89
% identity
                   oleosin, isoform 21K - Arabidopsis thaliana >gi_725260
NCBI Description
                   (L40954) oleosin [Arabidopsis thaliana]
Seq. No.
                   145731
Seq. ID
                   LIB3168-064-P1-K1-G8
```

18187

17

```
NCBI GI
                  g16231
BLAST score
                  51
                  5.0e-20
E value
                  107
Match length
                  84
% identity
                  Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                  >gi_166675_gb_M37247_ATHCRA1AA A.thaliana 12S storage
                  protein CRA1 gene, exons 1-4
                  145732
Seq. No.
                  LIB3168-064-P1-K1-G9
Seq. ID
Method
                  BLASTN
                  q395203
NCBI GI
BLAST score
                  116
E value
                  2.0e-58
Match length
                  276
                  83
% identity
NCBI Description
                  A.thaliana 2S albumin gene isoforms 1 and 2, complete CDS's
Seq. No.
                  145733
Seq. ID
                  LIB3168-064-P1-K1-H1
Method
                  BLASTX
NCBI GI
                  g112741
BLAST score
                  187
E value
                  4.0e-14
                                                                               φ.
Match length
                  68
% identity
                  60
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >qi 68855 pir NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >qi 395201 emb CAA80868
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >qi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145734
Seq. ID
                  LIB3168-064-P1-K1-H11
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  543
E value
                  9.0e-56
                  139
Match length
                  77
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >qi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145735
Seq. ID
                  LIB3168-064-P1-K1-H12
                  BLASTX
Method
NCBI GI
                  g112737
                  281
BLAST score
                  5.0e-25
E value
```

```
123
Match length
% identity
                  50
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145736
Seq. ID
                  LIB3168-064-P1-K1-H3
Method
                  BLASTN
                  q2842474
NCBI GI
BLAST score
                  111
                  1.0e-55
E value
                  212
Match length
                  89
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
                  145737
Seq. No.
                  LIB3168-064-P1-K1-H4
Seq. ID
Method
                  BLASTN
                  g4220510
NCBI GI
                  215
BLAST score
E value
                  1.0e-117
Match length
                  389
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18
NCBI Description
                  (ESSAII project)
Seq. No.
                  145738
                  LIB3168-064-P1-K1-H5
Seq. ID
Method
                  BLASTX
                  g112743
NCBI GI
BLAST score
                  611
                  8.0e-64
E value
                  116
Match length
                  95
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145739
Seq. ID
                  LIB3168-064-P1-K1-H6
Method
                  BLASTN
NCBI GI
                  g2262097
BLAST score
                  253
E value
                  1.0e-140
Match length
                  253
% identity
                  100
```

NCBI Description Arabidopsis thaliana chromosome IV BAC T19F6 genomic

. ا

## sequence, complete sequence

```
145740
 Seq. No.
                   LIB3168-064-P1-K1-H8
 Seq. ID
 Method
                   BLASTX
                   g3168840
 NCBI GI
 BLAST score
                   98
                   1.0e-03
 E value
                   61
 Match length
 % identity
                   80
                   (U88711) copper homeostasis factor [Arabidopsis thaliana]
 NCBI Description
                   145741
 Seq. No.
                   LIB3168-065-P1-K1-A10
 Seq. ID
 Method
                   BLASTN
 NCBI GI
                   g3461834
 BLAST score
                   319
 E value
                   1.0e-179
                   327
 Match length
                   99
 % identity
                   Arabidopsis thaliana chromosome II BAC T9I4 genomic
 NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                   145742
 Seq. ID
                   LIB3168-065-P1-K1-A11
                   BLASTX
 Method
 NCBI GI
                   g112741
 BLAST score
                   720
                   2.0e-76
 E value
                   135
Match length
                   99
 % identity
 NCBI Description
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi 68855 pir NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi 166616 (M22033) albumin 2S subunit
                   3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
 Seq. No.
                   145743
                   LIB3168-065-P1-K1-A12
 Seq. ID
Method
                   BLASTN
 NCBI GI
                   g4371278
 BLAST score
                   324
 E value
                   0.0e + 00
                   406
Match length
                   98
 % identity
NCBI Description
                   Arabidopsis thaliana chromosome II BAC T2N18 genomic
                   sequence, complete sequence [Arabidopsis thaliana]
 Seq. No.
                   145744
                   LIB3168-065-P1-K1-A2
Seq. ID
Method
                   BLASTN
 NCBI GI
                   g4757407
BLAST score
                   186
E value
                   1.0e-100
Match length
                   362
```

```
% identity
                  62
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MQD19, complete sequence
                  145745
Seq. No.
                  LIB3168-065-P1-K1-A3
Seq. ID
                  BLASTN
Method
NCBI GI
                  g3869069
                  395
BLAST score
E value
                  0.0e+00
                  407
Match length
                  99
% identity
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MEB5, complete sequence [Arabidopsis thaliana]
                  145746
Seq. No.
                  LIB3168-065-P1-K1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  647
BLAST score
                  5.0e-68
E value
Match length
                  127
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145747
                  LIB3168-065-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  571
                  5.0e-59
E value
                  137
Match length
                  81
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145748
                  LIB3168-065-P1-K1-A6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2129657
BLAST score
                  398
E value
                  1.0e-38
Match length
                  109
                  77
% identity
NCBI Description
                  oleosin isoform - Arabidopsis thaliana
                  >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
                  thaliana] >gi 987016 emb CAA90878 (Z54165) oleosin
                  [Arabidopsis thaliana]
```

Seq. No.

```
Seq. ID
                  LIB3168-065-P1-K1-A7
                  BLASTN
Method
                  g4580386
NCBI GI
                  335
BLAST score
                  0.0e + 00
E value
                  375
Match length
                  97
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T8018 genomic
                  sequence, complete sequence
Seq. No.
                  145750
                  LIB3168-065-P1-K1-A8
Seq. ID
                  BLASTX
Method
NCBI GI
                  g1628583
                  432
BLAST score
                  9.0e-43
E value
Match length
                  118
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145751
                  LIB3168-065-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
                  705
BLAST score
E value
                  1.0e-74
Match length
                  143
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145752
                  LIB3168-065-P1-K1-B10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3241927
BLAST score
                  333
                  0.0e + 00
E value
                  394
Match length
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MTE17, complete sequence [Arabidopsis thaliana]
                  145753
Seq. No.
                  LIB3168-065-P1-K1-B11
Seq. ID
                  BLASTX
Method
                  g1170767
NCBI GI
                  273
BLAST score
E value
                  4.0e-24
Match length
                  91
                  60
% identity
                  26S PROTEASE REGULATORY SUBUNIT 8 HOMOLOG (LET1 PROTEIN)
NCBI Description
                  >gi_626074_pir__S45176 transcription factor SUG1 homolog -
                  fission yeast (Schizosaccharomyces pombe) >gi_406051
```

i.

(U02280) Let1 [Schizosaccharomyces pombe]

```
regulatory subunit 8 homolog [Schizosaccharomyces pombe]
Seq. No.
                  145754
Seq. ID
                  LIB3168-065-P1-K1-B2
Method
                  BLASTX
NCBI GI
                  g4567260
BLAST score
                  263
E value
                   2.0e-23
Match length
                  52
% identity
NCBI Description
                   (AC006841) putative NADPH dependent mannose 6-phosphate
                  reductase [Arabidopsis thaliana]
                  >gi_4582440_gb_AAD24825.1_AC007142_3 (AC007142) putative
                  NADPH-dependent mannose-6-phosphate reductase [Arabidopsis
                  thaliana]
                  145755
Seq. No.
                  LIB3168-065-P1-K1-B3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g21913
BLAST score
                  193
E value
                  1.0e-14
Match length
                  79
% identity
                  46
NCBI Description
                   (X62626) vicilin [Theobroma cacao]
                  145756
Seq. No.
                  LIB3168-065-P1-K1-B4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4159708
BLAST scoré
                  397
                  0.0e+00
E value
Match length
                  433
% identity
                  86
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
                  MKP6, complete sequence
Seq. No.
                  145757
                  LIB3168-065-P1-K1-B5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  589
                  4.0e-61
E value
                  146
Match length
% identity
NCBI Description
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145758
Seq. No.
                  LIB3168-065-P1-K1-B6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  690
                  6.0e-73
E value
Match length
                  133
```

>gi 4106689 emb CAA22628 (AL035065) 26s protease

E value

```
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB (Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145759
Seq. No.
                  LIB3168-065-P1-K1-B7
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2244747
                  234
BLAST score
                  1.0e-129
E value
Match length
                  234
                  100
% identity
NCBI Description
                  Arabidopsis thaliana DNA chromosome 4, ESSA I contig
                  fragment No
                  145760
Seq. No.
                  LIB3168-065-P1-K1-B8
Seq. ID
                  BLASTN
Method
                  g4262221
NCBI GI
BLAST score
                  39
                  2.0e-12
E value
                  39
Match length
                  100
% identity
                  Arabidopsis thaliana chromosome II BAC F10A8 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145761
                  LIB3168-065-P1-K1-B9
Seq. ID
                  BLASTX
Method
                  g4056502
NCBI GI
BLAST score
                  595
                  7.0e-62
E value
                  117
Match length
                  100
% identity
                  (AC005896) 40S ribosomal protein S5 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145762
                  LIB3168-065-P1-K1-C1
Seq. ID
                  BLASTX
Method
NCBI GI
                  q99688
BLAST score
                  345
                  1.0e-32
E value
                  69
Match length
                  99
% identity
                  translation elongation factor eEF-1 alpha chain (gene A4) -
NCBI Description
                  Arabidopsis thaliana >gi_295789_emb_CAA34456_ (X16432)
                  elongation factor 1-alpha [Arabidopsis thaliana]
                  145763
Seq. No.
                  LIB3168-065-P1-K1-C10
Seq. ID
Method
                  BLASTN
NCBI GI
                  g3599967
BLAST score
                  359
                  0.0e + 00
```

```
371
Match length
                   99
% identity
NCBI Description Arabidopsis thaliana clp protease (CLP) mRNA, partial cds
                  145764
Seq. No.
                  LIB3168-065-P1-K1-C11
Seq. ID
Method
                  BLASTX
                   q1628583
NCBI GI
BLAST score
                   585
                   1.0e-60
E value
Match length
                   111
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                   145765
Seq. No.
                                                                                 \mathcal{A}_{k}(\mathcal{M}):=
                  LIB3168-065-P1-K1-C12
Seq. ID
Method
                  BLASTX
NCBI GI
                   g4204298
BLAST score
                   542
                   1.0e-55
E value
                   138
Match length
                   78
% identity
NCBI Description
                   (AC003027) lcl_prt_seq No definition line found
                   [Arabidopsis thaliana]
                   145766
Seq. No.
                   LIB3168-065-P1-K1-C2
Seq. ID
                  BLASTX
Method
NCBI GI
                   g4678322
BLAST score
                   454
E value
                   2.0e-45
                   124
Match length
                   79
% identity
                   (AL049658) putative protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                   145767
                  LIB3168-065-P1-K1-C3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   617
E value
                   2.0e-64
Match length
                   127
                   95
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145768
                   LIB3168-065-P1-K1-C4
Seq. ID
Method
                   BLASTX
NCBI GI
                   q112741
BLAST score
                   725
                   4.0e-77
E value
Match length
                   135
```

% identity

```
NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  145769
Seq. No.
                  LIB3168-065-P1-K1-C5
Seq. ID
Method
                  BLASTN
                  g3985950
NCBI GI
BLAST score
                  437
                  0.0e + 00
E value
                  437
Match length
% identity
                  100
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MPI10, complete sequence [Arabidopsis thaliana]
                  145770
Seq. No.
                  LIB3168-065-P1-K1-C6
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
BLAST score
                  613
                  6.0e-64
E value
                  142
Match length
% identity
                  82
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145771
                  LIB3168-065-P1-K1-C7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  631
                  4.0e-66
E value
                  136
Match length
                  90
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145772
                  LIB3168-065-P1-K1-C8
Seq. ID
Method
                  BLASTN
NCBI GI
                  g4512656
BLAST score
                  224
                  1.0e-123
E value
                  423
Match length
                  100
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F7D19 genomic
                  sequence, complete sequence
```

Seq. No.

```
Seq. ID
                  LIB3168-065-P1-K1-C9
Method
                  BLASTX
                  q112681
NCBI GI
                  614
BLAST score
                  5.0e-64
E value
                  124
Match length
                  98
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145774
                  LIB3168-065-P1-K1-D1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
                  597
BLAST score
                - 4.0e-62
E value
                  139
Match length
                  83
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145775
Seq. ID
                  LIB3168-065-P1-K1-D10
Method
                  BLASTX
NCBI GI
                  q112682
                  621
BLAST score
                  7.0e-65
E value
Match length
                  142
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir $08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145776
Seq. ID
                  LIB3168-065-P1-K1-D11
                  BLASTX
Method
                  g112741
NCBI GI
                  613
BLAST score
                  6.0e-64
E value
                  133
Match length
                  86
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
```

NCBI Description

```
145777
Seq. No.
                  LIB3168-065-P1-K1-D12
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
BLAST score
                   625
                  2.0e-65
E value
Match length
                  120
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145778
                   LIB3168-065-P1-K1-D2
Seq. ID
                   BLASTX
Method
                   q4539452
NCBI GI
BLAST score
                   449
                   1.0e-44
E value
Match length
                   138
% identity
                   (AL049500) putative phosphoribosylanthranilate transferase
NCBI Description
                   [Arabidopsis thaliana]
                   145779
Seq. No.
                   LIB3168-065-P1-K1-D3
Seq. ID
                   BLASTX
Method
                   q112682
NCBI GI
                   694
BLAST score
                   2.0e-73
E value.
Match length
                   144
                   92
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsīs thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   tha\overline{1}iana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145780
Seq. No.
Seq. ID
                   LIB3168-065-P1-K1-D4
                   BLASTN
Method
NCBI GI
                   q4510338
BLAST score
                   303
                   1.0e-170
E value
                   423
Match length
                   99
% identity
                   Arabidopsis thaliana chromosome II BAC F2H17 genomic
NCBI Description
                   sequence, complete sequence
                   145781
Seq. No.
                   LIB3168-065-P1-K1-D5
Seq. ID
                   BLASTN
Method
                   q3695372
NCBI GI
                   425
BLAST score
                   0.0e+00
E value
                   437
Match length
 % identity
```

Arabidopsis thaliana BAC F1104

```
145782
Seq. No.
                  LIB3168-065-P1-K1-D6
Seq. ID
                  BLASTX
Method
NCBI GI
                  q1628583
                  403
BLAST score
                  2.0e-39
E value
                  114
Match length
                  73
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145783
Seq. No.
                  LIB3168-065-P1-K1-D7
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
                  584
BLAST score
                  2.0e-60
E value
                  143
Match length
                  80
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145784
Seq. No.
                  LIB3168-065-P1-K1-D8
Seq. ID
Method
                  BLASTX
                  g2129659
NCBI GI
                  453
BLAST score
                  3.0e-45
E value
                  138
Match length
                   72
% identity
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                   (L40954) oleosin [Arabidopsis thaliana]
                  145785
Seq. No.
                  LIB3168-065-P1-K1-D9
Seq. ID
Method
                  BLASTX
NCBI GI
                   g1628583
                   556
BLAST score
                   4.0e-64
E value
                   127
Match length
                   95
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145786
Seq. No.
                   LIB3168-065-P1-K1-E1
Seq. ID
                   BLASTX
Method
                   g112741
NCBI GI
                   738
BLAST score
                   1.0e-78
E value
                   142
Match length
                   98
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
```

```
PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor - Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana]
```

```
      Seq. No.
      145787

      Seq. ID
      LIB3168-065-P1-K1-E10

      Method
      BLASTX

      NCBI GI
      g112681

      BLAST score
      350

      E value
      3.0e-33

      Match length
      121
```

% identity 61
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81604\_pir\_\_S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis

thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

storage protein [Arabidopsis thaliana]

```
      Seq. No.
      145788

      Seq. ID
      LIB3168-065-P1-K1-E11

      Method
      BLASTX

      NCBI GI
      g2429467

      BLAST score
      154

      E value
      4.0e-10
```

E value 4.0e Match length 83 % identity 36

NCBI Description (AF025462) contains similarity to glutathione S

transferases [Caenorhabditis elegans]

```
      Seq. No.
      145789

      Seq. ID
      LIB3168-065-P1-K1-E12

      Method
      BLASTX
```

NCBI GI g1628583
BLAST score 628
E value 1.0e-65
Match length 123
% identity 98

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

Seq. No. 145790

Seq. ID LIB3168-065-P1-K1-E2

Method BLASTX
NCBI GI g4455329
BLAST score 326
E value 3.0e-30
Match length 104
% identity 68

NCBI Description (AL035525) lysine-ketoglutarate reductase/saccharopine

[Arabidopsis thaliana]

Seq. No. 145791

Seq. ID LIB3168-065-P1-K1-E3

```
BLASTN
Method
                   g4589423
NCBI GI
                   220
BLAST score
                   1.0e-120
E value
Match length
                   374
% identity
                   Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                   K7B16, complete sequence
                   145792
Seq. No.
                   LIB3168-065-P1-K1-E4
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   625
                   2.0e-65
E value
Match length
                   120
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145793
                   LIB3168-065-P1-K1-E5
Seq. ID
                   BLASTN
Method
NCBI GI
                   q2088638
BLAST score
                   294
E value
                   1.0e-164
Match length
                   422
                   98
% identity
                   Arabidopsis thaliana chromosome II BAC T28M21 genomic
NCBI Description
                   sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   145794
                   LIB3168-065-P1-K1-E6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   625
E value
                   2.0e-65
                   120
Match length
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145795
Seq. No.
                   LIB3168-065-P1-K1-E7
Seq. ID
                   BLASTX
Method
NCBI GI
                   q112737
BLAST score
                   551
E value
                   1.0e-56
                   136
Match length
% identity
                   79
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
```

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```
precursor [Arabidopsis thaliana]
                  145796
Seq. No.
                  LIB3168-065-P1-K1-F1
Seq. ID
Method
                  BLASTX
                  q1628583
NCBI GI
                  610
BLAST score
                  1.0e-63
E value
Match length
                  120
                  98
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145797
Seq. ID
                  LIB3168-065-P1-K1-F10
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  687
                  1.0e-72
E value
Match length
                  141
                  93
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145798
                  LIB3168-065-P1-K1-F11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
                  678
BLAST score
                  1.0e-71
E value
                  136
Match length
                  99
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145799
Seq. No.
                  LIB3168-065-P1-K1-F12
Seq. ID
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  717
E value
                  4.0e-76
                 . 139
Match length
% identity
                  98
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145800
Seq. No.
                  LIB3168-065-P1-K1-F2
Seq. ID
```

>gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1

```
BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145801
                  LIB3168-065-P1-K1-F3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q226996
BLAST score
                  657
E value
                  4.0e-69
Match length
                  125
% identity
NCBI Description petB2 gene [Pisum sativum]
Seq. No.
                  145802
                  LIB3168-065-P1-K1-F4
Seq. ID
Method
                  BLASTN
                  g3150006
NCBI GI
BLAST score
                  34
                  1.0e-09
E value
Match length
                  42
% identity
                  48
NCBI Description
                  CIC5B11.1 check: 4870 from: 1 to: 167234, complete
                  sequence [Arabidopsis thaliana]
Seq. No.
                  145803
Seq. ID
                  LIB3168-065-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145804
                  LIB3168-065-P1-K1-F6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1710530
BLAST score
                  747
E value
                  1.0e-79
Match length
                  139
% identity
                  99
                  60S RIBOSOMAL PROTEIN#L27A >gi 2129719 pir S71256
NCBI Description
                  ribosomal protein L27a - Arabidopsis thaliana
                  >gi_1107487_emb_CAA63025_ (X91959) 60S ribosomal protein
                  L27a [Arabidopsis thaliana]
```

Seq. No.

```
Seq. ID
                  LIB3168-065-P1-K1-F8
                  BLASTX
Method -
                  g1628583
NCBI GI
                  584
BLAST score
                  1.0e-60
E value
                  117
Match length
                  97
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145806
                  LIB3168-065-P1-K1-F9
Seq. ID
                  BLASTX
Method
NCBI GI
                  g112681
BLAST score
                  474
                  9.0e-48
E value
Match length
                  103
                  88
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145807
Seq. No.
                  LIB3168-065-P1-K1-G1
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
                  523
BLAST score
                  2.0e-53
E value
Match length
                  110
                  91
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145808
Seq. ID
                  LIB3168-065-P1-K1-G11
Method
                  BLASTX
                  q3461845
NCBI GI
                  176
BLAST score
E value
                  1.0e-12
                  54
Match length
                  59
% identity
NCBI Description
                  (AC005315) hypothetical protein [Arabidopsis thaliana]
Seq. No.
                  145809
                  LIB3168-065-P1-K1-G12
Seq. ID
                  BLASTN
Method
                  q2687440
NCBI GI
BLAST score
                  61
                  6.0e-26
E value
                  93
Match length
```

% identity

NCBI Description Tellima grandiflora large subunit 26S ribosomal RNA gene, partial sequence

Seq. No. 145810

Seq. ID LIB3168-065-P1-K1-G2

Method BLASTN
NCBI GI g2264305
BLAST score 193
E value 1.0e-104
Match length 233
% identity 96

NCBI Description Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:

MBK23, complete sequence [Arabidopsis thaliana]

Seq. No. 145811

Seq. ID LIB3168-065-P1-K1-G3

Method BLASTX
NCBI GI g1402914
BLAST score 630
E value 6.0e-66
Match length 125
% identity 100

NCBI Description (X98318) peroxidase [Arabidopsis thaliana]

Seq. No. 145812

Seq. ID LIB3168-065-P1-K1-G4

Method BLASTX
NCBI GI g112741
BLAST score 732
E value 7.0e-78
Match length 138
% identity 99

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE

PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor -

Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 145813

Seq. ID LIB3168-065-P1-K1-G6

Method BLASTX
NCBI GI g2961377
BLAST score 636
E value 1.0e-66
Match length 124
% identity 24

NCBI Description (AL022141) putative receptor protein kinase [Arabidopsis

thaliana]

Seq. No. 145814

Seq. ID LIB3168-065-P1-K1-G8

Method BLASTX
NCBI GI g4539452
BLAST score 391
E value 6.0e-38

Seq. No.

145819

```
Match length
                  130
% identity
                   55
NCBI Description
                   (AL049500) putative phosphoribosylanthranilate transferase
                   [Arabidopsis thaliana]
                  145815
Seq. No.
                  LIB3168-065-P1-K1-G9
Seq. ID
                  BLASTX
Method
                  g112682
NCBI GI
                  185
BLAST score
                   4.0e-63
E value
                  138
Match length
                  91
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145816
                  LIB3168-065-P1-K1-H1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1109699
BLAST score
                  594
E value
                  1.0e-61
Match length
                  115
% identity
                  99
NCBI Description
                   (X83381) gibberellin 20-oxidase [Arabidopsis thaliana]
Seq. No.
                  145817
                  LIB3168-065-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2146728
BLAST score
                  709
E value
                  3.0e-75
Match length
                  146
% identity
                  92
                  cyclin cyclb - Arabidopsis thaliana >gi 1360646 (L27223)
NCBI Description
                  cyclin [Arabidopsis thaliana]
Seq. No.
                  145818
                  LIB3168-065-P1-K1-H3
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  423
                  9.0e-42
E value
Match length
                  116
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853 pir NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi 166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
```

```
Seq. ID
                  LIB3168-065-P1-K1-H4
Method
                  BLASTN
                  g4191771
NCBI GI
                  71
BLAST score
E value
                  6.0e-32
                  110
Match length
                  95
% identity
                  Arabidopsis thaliana chromosome II BAC F3P11 genomic
NCBI Description
                  sequence, complete sequence [Arabidopsis thaliana]
                  145820
Seq. No.
                  LIB3168-065-P1-K1-H6
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  609
E value
                  2.0e-63
                  142
Match length
                  82
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145821
                  LIB3168-065-P1-K1-H7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g3452263
BLAST score
                  528
                  4.0e-54
E value
                  109
Match length
% identity
NCBI Description
                  (AF035936) phosphatidylinositol 4-kinase; PI4K [Arabidopsis
                  thaliana]
Seq. No.
                  145822
Seq. ID
                  LIB3168-065-P1-K1-H9
Method
                  BLASTN
                  q4678291
NCBI GI
BLAST score
                  95
E value
                  1.0e-46
                  95
Match length
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 3, BAC clone F28P10
NCBI Description
                  (ESSA project)
Seq. No.
                  145823
Seq. ID
                  LIB3168-066-P1-K1-A1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  472
E value
                  1.0e-47
Match length
                  101
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
```

```
145824
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-A10
Method
                  BLASTN
                  q3513725
NCBI GI
                  246
BLAST score
                  1.0e-136
E value
                  298
Match length
                  78
% identity
                  Arabidopsis thaliana BAC F8M12
NCBI Description
Seq. No.
                  145825
                  LIB3168-066-P1-K1-A11
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2842474
BLAST score
                  273
                  1.0e-152
E value
Match length
                  273
                  100
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
Seq. No.
                  145826
                  LIB3168-066-P1-K1-A2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  464
E value
                  1.0e-46
Match length
                  101
                  88
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >qi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145827
                  LIB3168-066-P1-K1-A3
Seq. ID
Method
                  BLASTN
NCBI GI
                  q1628582
                  122
BLAST score
                  4.0e-62
E value
                  233
Match length
% identity
                  Arabidopsis thaliana 12S cruciferin seed storage protein
NCBI Description
                  (ATCRU3) gene, complete cds
                  145828
Seq. No.
                  LIB3168-066-P1-K1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  618
E value
                  2.0e-64
                  142
Match length
                  85
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
```

Match length

% identity

77

```
storage protein [Arabidopsis thaliana]
                   145829
Seq. No.
                   LIB3168-066-P1-K1-A5
Seq. ID
Method
                   BLASTX
NCBI GI
                   g2583125
BLAST score
                   332
E value
                   5.0e-31
                   102
Match length
                   66
% identity
NCBI Description
                   (AC002387) putative transketolase precursor [Arabidopsis
                   thaliana]
                   145830
Seq. No.
                   LIB3168-066-P1-K1-A6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   625
                   2.0e-65
E value
Match length
                   120
                   100
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145831
                  LIB3168-066-P1-K1-A7
Seq. ID
Method
                   BLASTN
NCBI GI
                   g2335089
BLAST score
                   383
E value
                   0.0e + 00
                   399
Match length
                   99
% identity
                  Arabidopsis thaliana chromosome II BAC T11A7 genomic
NCBI Description
                 sequence, complete sequence [Arabidopsis thaliana]
Seq. No.
                   145832
                  LIB3168-066-P1-K1-A8
Seq. ID
Method
                  BLASTN
NCBI GI
                   g4757411
BLAST score
                   299
E value
                   1.0e-167
Match length
                   347
                   100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MXC7, complete sequence
Seq. No.
                   145833
Seq. ID
                  LIB3168-066-P1-K1-B10
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                   471
                  2.0e-47
E value
                  129
```

>gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed

```
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145834
Seq. No.
                  LIB3168-066-P1-K1-B11
Seq. ID
                  BLASTX
Method
NCBI GI
                  g2160151
                  550
BLAST score
                  1.0e-56
E value
                  123
Match length
                   88
% identity
                   (AC000375) Strong similarity to Brassica aspartic protease
NCBI Description
                   (gb X77260). [Arabidopsis thaliana]
                   145835
Seq. No.
                  LIB3168-066-P1-K1-B12
Seq. ID
                   BLASTX
Method
                   g1628583
NCBI GI
                   254
BLAST score
                   2.0e-22
E value
                   53
Match length
                   98
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145836
Seq. No.
                   LIB3168-066-P1-K1-B2
Seq. ID
                   BLASTX
Method
                   g2583125
NCBI GI
BLAST score
                   364
                   1.0e-34
E value
                   108
Match length
                   67
% identity
                   (AC002387) putative transketolase precursor [Arabidopsis
NCBI Description
                   thaliana]
                   145837
Seq. No.
                   LIB3168-066-P1-K1-B4
Seq. ID
                   BLASTX
Method
                   g2623928
NCBI GI
                   338
BLAST score
                   5.0e-32
E value
                   90
Match length
% identity
                   (AF031457) RNA polymerase C1 [Gossypium arboreum]
NCBI Description
                   >gi 2623930 (AF031458) RNA polymerase C1 [Gossypium
                   hirsutum] >gi_2623932 (AF031459) RNA polymerase C1
                   [Gossypium barbadense] >gi_2623934 (AF031460) RNA
                   polymerase C1 [Gossypium tomentosum] >gi_2623936 (AF031461) RNA polymerase C1 [Gossypium mustelinum] >gi_2623938
                   (AF031462) RNA polymerase C1 [Gossypium darwinii]
```

Seq. No.

```
LIB3168-066-P1-K1-B5
Seq. ID
                   BLASTX
Method
NCBI GI
                   q1351837
BLAST score
                   144
E value
                   2.0e-09
Match length
                   79
                   43
% identity
                   ACETYL-COENZYME A CARBOXYLASE CARBOXYL TRANSFERASE SUBUNIT
NCBI Description
                   BETA >gi_2144155_pir__S66564 acetyl CoA carboxylase type II
                   beta-carboxyltransferase chain - rape chloroplast
                   >gi_1069998_emb_CAA90747_ (Z50868) acetyl CoA carboxylase
carboxyltransferase (beta subunit) [Brassica napus]
                   >gi_1589046_prf__2210244G Ac-CoA carboxylase:SUBUNIT=beta
                   [Brassica napus]
Seq. No.
                   145839
                   LIB3168-066-P1-K1-B6
Seq. ID
Method
                   BLASTX
                   g1628583
NCBI GI
BLAST score
                   571
E value
                   5.0e-59
Match length
                   145
                   78
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145840
Seq. ID
                   LIB3168-066-P1-K1-B7
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   603
E value
                   6.0e-63
Match length
                   117
                   99
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145841
                   LIB3168-066-P1-K1-B8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g3702339
BLAST score
                   669
                   1.0e-70
E value
                   129
Match length
                   100
% identity
                   (AC005397) unknown protein [Arabidopsis thaliana]
NCBI Description
                   145842
Seq. No.
                   LIB3168-066-P1-K1-B9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   395
                   2.0e-38
E value
                   109
Match length
                   73
% identity
```

BLAST score

639

```
NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145843
Seq. No.
                  LIB3168-066-P1-K1-C10
Seq. ID
                  BLASTX
Method
NCBI GI
                  g3851640
                  155
BLAST score
                  3.0e-10
E value
Match length
                  106
                  41
% identity
NCBI Description
                  (AF098636) chaperone GrpE type 2 [Nicotiana tabacum]
                  145844
Seq. No.
                  LIB3168-066-P1-K1-C11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
                  589 ·
BLAST score
                  4.0e-61
E value
                  144
Match length.
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145845
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-C2
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  525
                  1.0e-53
E value
Match length
                  107
% identity :
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145846
                  LIB3168-066-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  323
                  4.0e-30
E value
                  82
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145847
Seq. No.
                  LIB3168-066-P1-K1-C4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
```

```
E value
                  5.0e-67
Match length
                  130
                  91
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68853_pir_NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi 395204 emb CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145848
Seq. ID
                  LIB3168-066-P1-K1-C5
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  549
                  2.0e-56
E value
                  140
Match length
                  79
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145849
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-C6
Method
                  BLASTX
                  g1628583
NCBI GI
                  625
BLAST score
E value
                  2.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145850
Seq. No.
                  LIB3168-066-P1-K1-C7
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  639
E value
                  6.0e-67
Match length
                  136
                  91
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145851
Seq. ID
                  LIB3168-066-P1-K1-C8
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  626
                  2.0e-65
E value
                  143
Match length
                  83
% identity
```

Seq. ID

```
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir __S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   145852°
                   LIB3168-066-P1-K1-C9
Seq. ID
Method
                   BLASTX
NCBI GI
                   q4262213
BLAST score
                   191
E value
                   2.0e-14
Match length
                   41
                   93
% identity
NCBI Description
                   (AC006161) hypothetical protein [Arabidopsis thaliana]
                   145853
Seq. No.
                   LIB3168-066-P1-K1-D1
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112682
BLAST score
                   585
E value
                   1.0e-60
                   138
Match length
                   80
% identity
NCBI Description
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   145854
Seq. ID
                   LIB3168-066-P1-K1-D10
Method
                   BLASTX
NCBI GI
                   g2129657
BLAST score
                   323
                   5.0e-30
E value
Match length
                   97
% identity
                   72
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                   [Arabidopsis thaliana]
Seq. No.
                   145855
                   LIB3168-066-P1-K1-D11
Seq. ID
                   BLASTX
Method
NCBI GI
                   g1628583
BLAST score
                   574
                   2.0e-59
E value
Match length
                   143
                   80
% identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145856
Seq. No.
```

: .

LIB3168-066-P1-K1-D12

Method

BLASTX

```
Method
                  BLASTX
                  g3063445
NCBI GI
BLAST score
                  296
E value
                  9.0e-27
Match length
                  109
                  55
% identity
                  (AC003981) F22013.7 [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145857
                  LIB3168-066-P1-K1-D2
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  216
E value
                  4.0e-57
Match length
                  125
                  88
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145858
Seq. ID
                  LIB3168-066-P1-K1-D3
Method
                  BLASTX
NCBI GI
                  q585922
BLAST score
                  411
                  3.0e-40
E value
                  147
Match length
% identity
                  61
                  DNA-DIRECTED RNA POLYMERASE BETA" CHAIN
NCBI Description
Seq. No.
                  145859
                  LIB3168-066-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2129659
BLAST score
                  354
                  1.0e-33
E value
Match length
                  114
% identity
                  61
                  oleosin, isoform 21K - Arabidopsis thaliana >gi 725260
NCBI Description
                  (L40954) oleosin [Arabidopsis thaliana]
                  145860
Seq. No.
                  LIB3168-066-P1-K1-D5
Seq. ID
                  BLASTN
Method
NCBI GI
                  g2842474
BLAST score
                  55
E value
                  5.0e-22
Match length
                  238
                  89
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
                  145861
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-D6
```

```
NCBI GI
                 q1628583
BLAST score
                  625
                  3.0e-65
E value
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145862
Seq. ID
                  LIB3168-066-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  a112681
BLAST score
                  644
E value
                  1.0e-67
                  126
Match length
                  99
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir_S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145863
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-D8
Method
                  BLASTX
                  g112681
NCBI GI
BLAST score
                  511
E value
                  5.0e-52
Match length
                  131
                  80
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145864
                  LIB3168-066-P1-K1-E10
Seq. ID
Method
                  BLASTN
NCBI GI
                  q3985931
BLAST score
                  417
E value
                  0.0e + 00
Match length
                  429
                  99
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K21H1, complete sequence [Arabidopsis thaliana]
                  145865
Seq. No.
                  LIB3168-066-P1-K1-E11
Seq. ID
                  BLASTX
Method
NCBI GI
                  q112682
BLAST score
                  657
                  4.0e-69
E value
Match length
                  144
                  88
% identity
NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir S08510
```

cruciferin precursor (CRB) - Arabidopsis thaliana >gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis
thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana]

35 · · ·

145866 Seq. No.

LIB3168-066-P1-K1-E12 Seq. ID

Method BLASTX NCBI GI ,g384341 BLAST score 205 E value 4.0e-16 Match length 101 43 % identity

NCBI Description major storage protein [Theobroma cacao]

145867 Seq. No.

LIB3168-066-P1-K1-E2 Seq. ID

Method BLASTX NCBI GI g122781 BLAST score 454 2.0e-45 E value Match length 120 % identity 72

NCBI Description POTENTIAL HEME-BINDING PROTEIN PRECURSOR (ORF 229)

> >gi\_82210\_pir\_\_A05198 hypothetical protein 229 - common tobacco chloroplast >gi\_11844\_emb\_CAA77364\_ (Z00044)

hypothetical protein [Nicotiana tabacum]

>gi 225212 prf 1211235AT ORF 229 [Nicotiana tabacum]

Seq. No. 145868

Seq. ID LIB3168-066-P1-K1-E3

Method BLASTX NCBI GI g4454009 BLAST score 276 E value 2.0e-24 Match length 117 % identity 55

(AL035396) putative protein [Arabidopsis thaliana] NCBI Description

Seq. No. 145869

LIB3168-066-P1-K1-E4 Seq. ID

Method BLASTX NCBI GI g112682 BLAST score 610 1.0e-63 E value Match length 141 % identity 82

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510

cruciferin precursor (CRB) - Arabidopsis thaliana

>gi\_166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed

storage protein [Arabidopsis thaliana]

145870 Seq. No.

Seq. ID LIB3168-066-P1-K1-E5

Method BLASTX NCBI GI g2459446

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```
BLAST score
                  681
                  6.0e-72
E value
Match length
                  145
                  90
% identity
                  (ACO02332) putative cinnamoyl-CoA reductase [Arabidopsis
NCBI Description
                  thaliana]
                  145871
Seq. No.
                  LIB3168-066-P1-K1-E6
Seq. ID
Method
                  BLASTX
                  g4210330
NCBI GI
BLAST score
                  422
                  1.0e-41
E value
Match length
                  83
                  100
% identity
                   (AJ223802) 2-oxoglutarate dehydrogenase, El subunit
NCBI Description
                   [Arabidopsis thaliana]
                  145872
Seq. No.
                  LIB3168-066-P1-K1-E7
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  565
                  2.0e-58
E value
                  141
Match length
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145873
Seq. No.
                  LIB3168-066-P1-K1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g729486
                  183
BLAST score
                  2.0e-13
E value
                  102
Match length
% identity
NCBI Description
                  PRE-RRNA PROCESSING PROTEIN FHL1 >gi_626950_pir__S43738
                  transcription activator FHL1 - yeast (Saccharomyces
                  cerevisiae) >gi_454255_emb_CAA82202 (Z28348) Fhl1p
                  [Saccharomyces cerevisiae] >gi_914975 (U32445) Pre-rRNA
                  processing protein Fhl1 (Swiss Prot. accession number
                  P39521) [Saccharomyces cerevisiae]
Seq. No.
                  145874
                  LIB3168-066-P1-K1-F1
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2851581
BLAST score
                  655
                  7.0e-69
E value
Match length
                  145
                  88
% identity
                  DNA-DIRECTED RNA POLYMERASE BETA CHAIN
NCBI Description
                  >qi 2196464 emb CAA74024 (Y13690) DNA-dependent RNA
```

polymerase subunit beta [Arabidopsis thaliana]

```
145875
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-F11
Method
                  BLASTX
NCBI GI
                  q1628583
                  173
BLAST score
                  2.0e-12
E value
                  62
Match length
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145876
Seq. No.
                  LIB3168-066-P1-K1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  a4204298
BLAST score
                  526
                  9.0e-54
E value
                  120
Match length
% identity
                   (AC003027) lcl_prt_seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
                  145877
Seq. No.
                  LIB3168-066-P1-K1-F3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112739
BLAST score
                  553
E value
                  7.0e-57
Match length
                  144
                  76
% identity
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
                  145878
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-F5
Method
                  BLASTX
NCBI GI
                  g112682
                  595
BLAST score
E value
                  8.0e-62
Match length
                  138
                  82
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  tha\overline{\text{liana}} >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145879
                  LIB3168-066-P1-K1-F6
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
```

14.

Seq. ID

```
BLAST score
                   625
E value
                  2.0e-65
Match length
                  120
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                   145880
Seq. No.
                  LIB3168-066-P1-K1-F7
Seq. ID
Method
                  BLASTX
NCBI GI
                   q1628583
BLAST score
                   617
E value
                   2.0e-64
Match length
                  119
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145881
                  LIB3168-066-P1-K1-F8
Seq. ID
                  BLASTX
Method
NCBI GI
                  q3063693
BLAST score
                  252
                  1.0e-21
E value
Match length
                  45
% identity
                  100
NCBI Description (AL022537) putative protein [Arabidopsis thaliana]
                  145882
Seq. No.
                  LIB3168-066-P1-K1-F9
Seq. ID
Method
                  BLASTX
NCBI GI
                   g1628583
BLAST score
                   587
E value
                   7.0e-61
Match length
                   146
% identity .
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                   145883
                  LIB3168-066-P1-K1-G1
Seq. ID
Method
                  BLASTX
NCBI GI
                   q267069
BLAST score
                   613
E value
                   6.0e-64
Match length
                  113
% identity
                   100
                  TUBULIN ALPHA-2/ALPHA-4 CHAIN >gi_320183_pir__JQ1594
NCBI Description
                   tubulin alpha chain - Arabidopsis thaliana >gi_166914 (M84696) apha-2 tubulin [Arabidopsis thaliana] >gi_166916
                   (M84697) alpha-4 tubulin [Arabidopsis thaliana]
                  145884
Seq. No.
```

LIB3168-066-P1-K1-G10

```
Method
                  BLASTX
NCBI GI
                  q4630748
                  58
BLAST score
E value
                  2.0e-13
Match length
                  46
% identity
                   (AC007236) putative anion exchange protein 3 [Arabidopsis
NCBI Description
                  145885
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-G11
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
E value
                  2.0e-67
Match length
                  123
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145886
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-G12
Method
                  BLASTX
NCBI GI
                  g112743
BLAST score
                  367
E value
                  3.0e - 35
Match length
                  98
                  73
% identity
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi 68856 pir NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi_4490713_emb_CAB38847.1_ (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145887
Seq. ID
                  LIB3168-066-P1-K1-G3
Method
                  BLASTX
                  q4263525
NCBI GI
BLAST score
                  571
E value
                  5.0e-59
Match length
                  133
                  85
% identity
NCBI Description
                  (AC004044) putative photosystem I reaction center subunit
                  II precursor [Arabidopsis thaliana]
Seq. No.
                  145888
Seq. ID
                  LIB3168-066-P1-K1-G4
Method
                  BLASTN
                  g3548797
NCBI GI
BLAST score
                  380
E value
                  0.0e + 00
Match length
                  401
                  98
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC T18E12 genomic
```

## sequence, complete sequence [Arabidopsis thaliana] 145889 Seq. No. LIB3168-066-P1-K1-G5 Seq. ID BLASTX Method g2828296 NCBI GI 559 BLAST score 1.0e-57 E value 104 Match length 100 % identity (AL021687) RNase L inhibitor [Arabidopsis thaliana] NCBI Description 145890 Seq. No. LIB3168-066-P1-K1-G6 Seq. ID BLASTX Method NCBI GI g112741 BLAST score 516 1.0e-52 E value 95 Match length 100 % identity 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi 68855\_pir\_\_NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712 emb CAB38846.1\_ (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana] 145891 Seq. No. LIB3168-066-P1-K1-G7 Seq. ID BLASTX Method q1628583 NCBI GI 625 BLAST score 2.0e-65 E value 120 Match length 100 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 145892 Seq. No. LIB3168-066-P1-K1-G9 Seq. ID BLASTX Method NCBI GI q4204298 BLAST score 519 6.0e-53 E value Match length 117 % identity (AC003027) lcl\_prt\_seq No definition line found NCBI Description [Arabidopsis thaliana] 145893 Seq. No. LIB3168-066-P1-K1-H1 Seq. ID BLASTX Method NCBI GI g1628583 752 BLAST score

3.0e-80

E value

Seq. ID

Method

```
146
Match length
% identity
                  100
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145894
Seq. No.
                  LIB3168-066-P1-K1-H10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  678
E value
                  1.0e-71
Match length
                  141
                  93
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145895
Seq. No.
                  LIB3168-066-P1-K1-H11
Seq. ID
Method
                  BLASTX
NCBI GI
                  g2160158
BLAST score
                  424
E value
                  8.0e-42
Match length
                  98
% identity
NCBI Description
                  (AC000132) Similar to elongation factor 1-gamma
                  (gb_EF1G_XENLA). ESTs gb_T20564,gb_T45940,gb_T04527 come
                  from this gene. [Arabidopsis thaliana]
                  145896
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-H12
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  741
                  6.0e-79
E value
Match length
                  142
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  145897
                  LIB3168-066-P1-K1-H2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  606
E value
                  4.0e-63
Match length
                  147
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (ALO21749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145898
Seq. No.
```

LIB3168-066-P1-K1-H3

BLASTX

```
NCBI GI
                  q480450
BLAST score
                  446
E value
                  2.0e-44
                  101
Match length
                  89
% identity
NCBI Description
                  ketol-acid reductoisomerase (EC 1.1.1.86) - Arabidopsis
                  thaliana >gi_402552_emb CAA49506 (X69880) ketol-acid
                  reductoisomerase [Arabidopsis thaliana]
                  145899
Seq. No.
Seq. ID
                  LIB3168-066-P1-K1-H4
                  BLASTX
Method
                  g113026
NCBI GI
BLAST score
                  457
                  9.0e-46
E value
                  103
Match length
                  87
% identity
                  ISOCITRATE LYASE (ISOCITRASE) (ISOCITRATASE) (ICL)
NCBI Description
                  >gi 68211 pir WZRPI isocitrate lyase (EC 4.1.3.1) - rape
                  >gi 255220 bbs 112862 isocitrate lyase, threo-D
                  S-isocitrate glyoxylate-lyase, IL {EC 4.1.3.1} [Brassica
                  napus, seedlings, Peptide, 576 aa] >gi_167144 (L08482)
                  isocitrate lyase [Brassica napus] >gi_447142_prf__1913424A
                  isocitrate lyase [Brassica napus]
                  145900
Seq. No.
                  LIB3168-066-P1-K1-H7
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4691223
                  223
BLAST score
                  1.0e-122
E value
                  427
Match length
                  98
% identity
                  Arabidopsis thaliana DNA chromosome 3, BAC clone F4F15
NCBI Description
                  (ESSA project)
Seq. No.
                  145901
                  LIB3168-066-P1-K1-H8
Seq. ID
Method
                  BLASTX
NCBI GI
                  g4510348
                  632
BLAST score
                  4.0e-66
E value
                  126
Match length
% identity
                  (AC006921) unknown protein [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145902
                  LIB3168-067-P1-K1-A10
Seq. ID
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score .
                  642
E value
                  3.0e-67
                  123
Match length
                  100
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
```

cruciferin seed storage protein [Arabidopsis thaliana]

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```
145903
Seq. No.
                  LIB3168-067-P1-K1-A11
Seq. ID
                  BLASTX
Method
                  g112741
NCBI GI
                  764
BLAST score
                  2.0e-81
E value
                  164
Match length
                  88
% identity
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
                  145904
Seq. No.
                  LIB3168-067-P1-K1-A12
Seq. ID
                  BLASTX
Method
                  g4314378
NCBI GI
                  837
BLAST score
                  4.0e-90
E value
                  160
Match length
                  99
% identity
                  (AC006232) putative lipase [Arabidopsis thaliana]
NCBI Description
Seq. No.
                  145905
                  LIB3168-067-P1-K1-A2
Seq. ID
                  BLASTN
Method
                  q2842474
NCBI GI
                  47
BLAST score
                  2.0e-17
E value
Match length
                  146
                  40
% identity
                  Arabidopsis thaliana DNA chromosome 4, BAC clone F2009
NCBI Description
                  (ESSAII project)
Seq. No.
                  145906
Seq. ID
                  LIB3168-067-P1-K1-A3
Method
                  BLASTX
                  g112681
NCBI GI
                  511
BLAST score
                  3.0e-52
E value
                  99
Match length
                  98
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thalīana]
Seq. No.
                  145907
                  LIB3168-067-P1-K1-A4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q544122
BLAST score
                  389
```

```
E value
                  2.0e-37
Match length
                  84
% identity
                  90
                  APOCYTOCHROME F PRECURSOR >gi 629599 pir S45661
NCBI Description
                  plastoquinol--plastocyanin reductase (EC 1.10.99.1)
                  cytochrome f precursor - turnip chloroplast
                  >gi 441282 emb CAA54307 (X77011) cytochrome f [Brassica
                  rapa]
                  145908
Seq. No.
                  LIB3168-067-P1-K1-A5
Seq. ID
Method
                  BLASTX
                  g1345973
NCBI GI
BLAST score
                  540
                  5.0e-71
E value
                  148
Match length
                  87
% identity
                  OMEGA-3 FATTY ACID DESATURASE, ENDOPLASMIC RETICULUM
NCBI Description
                  >gi_541882_pir__JQ2335 omega-3 fatty acid desaturase (EC
                  1.14.99.-) CF3 - Arabidopsis thaliana >gi 408483 (L22931)
                  omega-3 fatty acid desaturase [Arabidopsis thaliana]
                  >gi_471091_dbj_BAA04505_ (D17579) fatty acid desaturase
                  [Arabidopsis thaliana] >gi_1197795_dbj_BAA05514_ (D26508)
                  microsomal omega-3 fatty acid desaturase [Arabidopsis
                  thaliana] >gi 3420053 (AC004680) omega-3 fatty acid
                  desaturase [Arabidopsis thaliana]
Seq. No.
                  145909
                  LIB3168-067-P1-K1-A6
Seq. ID
                  BLASTX
Method
                  q112681
NCBI GI
                  402
BLAST score
                  2.0e-39
E value
                  107
Match length
                  76
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145910
                  LIB3168-067-P1-K1-A8
Seq. ID
                  BLASTN
Method
NCBI GI
                  q4512656
BLAST score
                  159
                  3.0e-84
E value
                  292
Match length
                  85
% identity
                  Arabidopsis thaliana chromosome II BAC F7D19 genomic
NCBI Description
                  sequence, complete sequence
                  145911
Seq. No.
                  LIB3168-067-P1-K1-A9
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112741
```

Method

BLASTX

```
E value
                  2.0e-90
Match length
                  157
% identity.
NCBI Description
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145912
Seq. ID
                  LIB3168-067-P1-K1-B1
Method
                  BLASTX
NCBI GI
                  q82051
BLAST score
                  212
E value
                  4.0e-17
Match length
                  92
                  49
% identity
                  lipid body-associated membrane protein - carrot
NCBI Description
                  >gi_259453_bbs_117620 (S47635) lipid body membrane
                  protein=DC 59 [Daucus carota=carrots, var Juwarot, Peptide,
                  180 aa] [Daucus carota]
Seq. No.
                  145913
Seq. ID
                  LIB3168-067-P1-K1-B10
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  232
E value
                  3.0e-85
Match length
                  158
                  100
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145914
Seq. ID
                  LIB3168-067-P1-K1-B12
Method
                  BLASTX
NCBI GI
                  q112737
BLAST score
                  560
E value
                  1.0e-57
Match length
                  137
% identity
NCBI Description
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145915
Seq. No.
Seq. ID
                  LIB3168-067-P1-K1-B2
```

```
g112682
NCBI GI
BLAST score
                  741
E value
                  6.0e-79
Match length
                  146
% identity
                  97
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145916
                  LIB3168-067-P1-K1-B4
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  872
E value
                  3.0e-94
Match length
                  176
                  98
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145917
Seq. ID
                  LIB3168-067-P1-K1-B5
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  619
E value
                  1.0e-64
Match length
                  124
% identity
                  99
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir $08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145918
                  LIB3168-067-P1-K1-B6
Seq. ID
Method
                  BLASTN
                  g3492855
NCBI GI
BLAST score
                  116
                  1.0e-58
E value
                  209
Match length
                  97
% identity
                  Genomic sequence for Arabidopsis thaliana BAC F20N2,
NCBI Description
                  complete sequence [Arabidopsis thaliana]
                  145919
Seq. No.
                  LIB3168-067-P1-K1-B8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q4490704
BLAST score
                  813
                  3.0e-87
E value
                  163
Match length
```

```
% identity
NCBI Description
                   (AL035680) putative protein [Arabidopsis thaliana]
Seq. No.
                  145920
Seq. ID
                  LIB3168-067-P1-K1-C1
Method
                  BLASTN
NCBI GI
                  g3449331
BLAST score
                  410
                  0.0e+00
E value
Match length
                  455
% identity
                  32
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MNC17, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145921
Seq. ID
                  LIB3168-067-P1-K1-C10
Method
                  BLASTN
NCBI GI
                  g3108025
BLAST score
                  388
E value
                  0.0e + 00
Match length
                  508
% identity
NCBI Description
                  Arabidopsis thaliana chromosome 1 BAC T13D8, complete
                  sequence [Arabidopsis thaliana]
Seq. No.
                  145922
                  LIB3168-067-P1-K1-C11
Seq. ID
Method
                  BLASTX
                  g112682
NCBI GI
                  795
BLAST score
E value
                  3.0e-85
                  152
Match length
                  100
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145923
                  LIB3168-067-P1-K1-C12
Seq. ID
Method
                  BLASTN
NCBI GI
                  g2924729
                  250
BLAST score
                  1.0e-138
E value
                  441
Match length
% identity
                  98
NCBI Description
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
                  MNA5, complete sequence [Arabidopsis thaliana]
                  145924
Seq. No.
                  LIB3168-067-P1-K1-C2
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  741
                  7.0e-79
E value
                  155
Match length
```

```
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145925
Seq. No.
                  LIB3168-067-P1-K1-C3
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682 .
                  793
BLAST score
                  6.0e-85
E value
Match length
                  164
% identity
                  92
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145926
Seq. No.
                  LIB3168-067-P1-K1-C5
Seq. ID
Method
                  BLASTX
                  g112739
NCBI GI
BLAST score
                  357
                  5.0e-34
E value
                  109
Match length
% identity
                  68
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68854_pir__NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                  2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                  (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                  >gi 4490711 emb CAB38845.1 (AL035680) NWMU2-2S albumin 2
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145927
Seq. ID
                  LIB3168-067-P1-K1-C6
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  642
                  3.0e-67
E value
                  123
Match length
                  100
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145928
Seq. No.
                  LIB3168-067-P1-K1-C7
Seq. ID
                  BLASTX
Method
                  g1906830
NCBI GI
BLAST score
                  731
                  9.0e-78
E value
Match length
                  143
                  99
% identity
```

NCBI Description (Y11829) heat shock protein [Arabidopsis thaliana]

Seq. ID

```
145929
Seq. No.
Seq. ID
                   LIB3168-067-P1-K1-C8
Method
                   BLASTX
NCBI GI
                   g464987
BLAST score
                   702
E value
                   3.0e-74
                   148
Match length
% identity
                   88
                   UBIQUITIN-CONJUGATING ENZYME E2-17 KD 10 (UBIQUITIN-PROTEIN
NCBI Description
                   LIGASE 10) (UBIQUITIN CARRIER PROTEIN 10)
                   >gi_421858_pir__S32672 ubiquitin--protein ligase (EC
6.3.2.19) UBC10 - Arabidopsis thaliana
                   >qi 297878 emb CAA78715 (Z14991) ubiquitin conjugating
                   enzyme [Arabidopsis thaliana] >gi 349213 (L00640) ubiquitin
                   conjugating enzyme [Arabidopsis thaliana]
Seq. No.
                   145930
Seq. ID
                   LIB3168-067-P1-K1-C9
Method
                   BLASTN
NCBI GI
                   g16231
BLAST score
                   87
                   9.0e-42
E value
Match length
                   99
% identity
                   97
                   Arabidopsis CRA1 gene for 12S seed storage protein
NCBI Description
                   >gi_166675_gb_M37247_ATHCRA1AA A.thaliana 12S storage
                   protein CRA1 gene, exons 1-4
                   145931
Seq. No.
Seq. ID
                   LIB3168-067-P1-K1-D1
Method
                   BLASTX
NCBI GI
                   q4426939
BLAST score
                   421
E value
                   1.0e-41
Match length
                   85
% identity
                   (AF118824) senescence-associated protein [Arabidopsis
NCBI Description
                   thaliana]
                   145932
Seq. No.
Seq. ID
                   LIB3168-067-P1-K1-D10
Method
                   BLASTX
NCBI GI
                   q112737
BLAST score
                   624
E value
                   3.0e-65
Match length
                   146
% identity
                   82
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >qi 68853 pir NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
                   145933
Seq. No.
```

LIB3168-067-P1-K1-D11

```
BLASTX
Method
                   q4204299
NCBI GI
BLAST score
                   764
E value
                   1.0e-81
Match length
                   167
                   89
% identity
                   (AC003027) lcl prt seq No definition line found
NCBI Description
                   [Arabidopsis thaliana]
                   145934
Seq. No.
Seq. ID
                   LIB3168-067-P1-K1-D12
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   638
E value
                   7.0e-67
Match length
                   144
                   85
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   145935
                   LIB3168-067-P1-K1-D3
Seq. ID
Method
                   BLASTX
NCBI GI
                   q2129767
BLAST score
                   901
E value
                   1.0e-97
Match length
                   174
                   98
% identity
                   vacuolar processing enzyme (EC 3.4.22.-) isozyme beta
NCBI Description
                   precursor - Arabidopsis thaliana >gi_1805364_dbj_BAA09615_
                   (D61394) beta-VPE [Arabidopsis thaliana]
Seq. No.
                   145936
Seq. ID
                   LIB3168-067-P1-K1-D4
Method
                   BLASTN
NCBI GI
                   q4757414
BLAST score
                   453
E value
                   0.0e + 00
Match length
                   453
% identity
                   100
                   Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                   MYF24, complete sequence
Seq. No.
                   145937
Seq. ID
                   LIB3168-067-P1-K1-D5
Method
                   BLASTX
NCBI GI
                   g2129657
BLAST score
                   283
E value
                   4.0e-37
Match length
                   136
% identity
NCBI Description
                   oleosin isoform - Arabidopsis thaliana
                   >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
```

## [Arabidopsis thaliana]

```
Seq. No.
                   145938
                   LIB3168-067-P1-K1-D6
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112741
                   362
BLAST score
E value
                   1.0e-34
Match length
                   67
% identity
                   100
                   2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68855 pir__NWMU3 2S albumin 3 precursor -
                   Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                   (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                   >gi 4490712 emb CAB38846.1 (AL035680) NWMU3-2S albumin 3
                   precursor [Arabidopsis thaliana]
Seq. No.
                   145939
Seq. ID
                   LIB3168-067-P1-K1-D7
Method
                   BLASTX
NCBI GI
                   g112737
BLAST score
                   722
E value
                   1.0e-76
                  163
Match length
% identity
                  . 84
NCBI Description
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
                   PROTEIN) >gi_68853_pir_NWMU1 2S albumin 1 precursor -
                   Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   145940
Seq. ID
                   LIB3168-067-P1-K1-D8
Method
                   BLASTX
                   g112737
NCBI GI
                   727
BLAST score
E value
                   3.0e-77
Match length
                   164
% identity
                   2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                   1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                   (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                   >gi_4490710_emb_CAB38844.1_ (AL035680) NWMU1-2S albumin 1
                   precursor [Arabidopsis thaliana]
Seq. No.
                   145941
                   LIB3168-067-P1-K1-D9
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112681
BLAST score
                   615
E value
                   4.0e-64
Match length
                   160
```

```
80
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145942
Seq. No. ..
Seq. ID
                   LIB3168-067-P1-K1-E1
                   BLASTX
Method
NCBI GI
                   q2702272
                   375
BLAST score
                   6.0e-36
E value
                   99
Match length
% identity
                   (AC003033) hypothetical protein [Arabidopsis thaliana]
NCBI Description
                   145943
Seq. No.
                   LIB3168-067-P1-K1-E11
Seq. ID
                   BLASTN
Method
NCBI GI
                   g3292807
BLAST score
                   280
E value
                   1.0e-156
                   470
Match length
% identity
                   95
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F7H19
NCBI Description
                   (ESSAII project)
                   145944
Seq. No.
                   LIB3168-067-P1-K1-E12
Seq. ID
                   BLASTN
Method
NCBI GI
                   g4220510
                   119
BLAST score
                   2.0e-60
E value
                   221
Match length
                   100
% identity
                   Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18
NCBI Description
                   (ESSAII project)
                   145945
Seq. No.
                   LIB3168-067-P1-K1-E2
Seq. ID
                   BLASTX
Method
NCBI GI
                   q2129657
BLAST score
                   423
                   1.0e-41
E value
                   120
Match length
                   75
% identity
                   oleosin isoform - Arabidopsis thaliana
NCBI Description
                   \verb|\gig| 987014 emb\_CAA90877\_ (Z54164) oleosin [Arabidopsis thaliana] $ \geqslant i 987016 emb\_CAA90878\_ (Z54165) oleosin |
                   [Arabidopsis thaliana]
                   145946
Seq. No.
                   LIB3168-067-P1-K1-E3
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112743
```

```
E value
                  6.0e-35
Match length
                  121
% identity
                  62
NCBI Description
                  2S SEED STORAGE PROTEIN 4 PRECURSOR (2S ALBUMIN STORAGE
                  PROTEIN) >gi_68856_pir__NWMU4 2S albumin 4 precursor -
                  Arabidopsis thaliana >gi_166617 (M22033) albumin 2S subunit
                  4 precursor [Arabidopsis thaliana] >gi_395202_emb_CAA80869_
                  (Z24744) 2S albumin isoform 4 [Arabidopsis thaliana]
                  >gi 4490713 emb CAB38847.1 (AL035680) NWMU4-2S albumin 4
                  precursor [Arabidopsis thaliana]
                  145947
Seq. No.
Seq. ID
                  LIB3168-067-P1-K1-E4
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  728
                  2.0e-77
E value
                  163
Match length
% identity
                  86
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  145948
                  LIB3168-067-P1-K1-E6
Seq. ID
Method
                  BLASTN
NCBI GI
                  q4263038
BLAST score
                  446
E value
                  0.0e + 00
Match length
                  510
% identity
                  96
                  Arabidopsis thaliana BAC T5L23 from chromosome IV, near 19
NCBI Description
                  cM, complete sequence [Arabidopsis thaliana]
Seq. No.
                  145949
                  LIB3168-067-P1-K1-E8
Seq. ID
Method
                  BLASTX
NCBI GI
                  q2864609
BLAST score
                  223
E value
                  3.0e-18
Match length
                  87
% identity
                  (AL021811) putative protein [Arabidopsis thaliana]
NCBI Description
                  >gi_4049337_emb_CAA22562_ (AL034567) putative protein
                  [Arabidopsis thaliana]
Seq. No.
                  145950
                  LIB3168-067-P1-K1-F10
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1628583
BLAST score
                  421
                  2.0e-41
E value
Match length
                  109
% identity
                  79
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  145951
                  LIB3168-067-P1-K1-F11
Seq. ID
Method
                  BLASTN
                  g3869071
NCBI GI
                  416
BLAST score
                  0.0e+00
E value
Match length
                  416
                  100
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 3, P1 clone:
NCBI Description
                  MIL23, complete sequence [Arabidopsis thaliana]
                  145952
Seq. No.
                  LIB3168-067-P1-K1-F12
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112737
                  663
BLAST score
                  1.0e-69
E value
                  155
Match length
                  82
% identity
                  2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68853_pir__NWMU1 2S albumin 1 precursor -
                  Arabidopsis thaliana >gi_166614 (M22033) albumin 2S subunit
                  1 precursor [Arabidopsis thaliana] >gi_395204_emb_CAA80870_
                  (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]
                  >qi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1
                  precursor [Arabidopsis thaliana]
                  145953
Seq. No.
                  LIB3168-067-P1-K1-F2
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
BLAST score
                  681
                                                              Ξ,
                  8.0e-72
E value
Match length
                  155
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir_S08510
NCBI Description
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi 808937 emb CAA32494 (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
                  145954
Seq. No.
                  LIB3168-067-P1-K1-F4
Seq. ID
Method
                  BLASTN
NCBI GI
                  g1354467
                  145
BLAST score
E value
                  1.0e-75
                  153
Match length
% identity
                  Arabidopsis thaliana Ul snRNP 70K protein gene, complete
NCBI Description
                  cds
```

145955

LIB3168-067-P1-K1-F5

Seq. No.

Seq. ID

```
BLASTX
Method
                   q4415917
NCBI GI
BLAST score
                   625
                   9.0e-77
E value
Match length
                   162
                   69
% identity
                   (AC006282) putative protein containing zinc finger domain
NCBI Description
                   [Arabidopsis thaliana]
Seq. No.
                   145956
                   LIB3168-067-P1-K1-F6
Seq. ID
Method
                   BLASTX
                   g112739
NCBI GI
BLAST score
                   559
                   2.0e-57
E value
Match length
                   149
                   76
 % identity
                   2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68854_pir__NWMU2 2S albumin 2 precursor -
                   Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                   2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
                   145957
Seq. No.
Seq. ID
                   LIB3168-067-P1-K1-F7
Method
                   BLASTX
                   q3738257
NCBI GI
                   486
BLAST score
E value
                   5.0e-49
Match length
                   112
                   86
 % identity
                   (AB018410) cytosolic phosphoglycerate kinase 1 [Populus
NCBI Description
                   nigra]
Seq. No.
                   145958
                   LIB3168-067-P1-K1-F8
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   642
E value
                   3.0e-67
Match length
                   123
 % identity
                   100
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                   thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                   cruciferin seed storage protein [Arabidopsis thaliana]
                   145959
Seq. No.
                   LIB3168-067-P1-K1-F9
 Seq. ID
Method
                   BLASTX
NCBI GI
                   g1628583
BLAST score
                   757
                   1.0e-80
E value
                   156
Match length
                   93
 % identity
                   (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

E value

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

145960 Seq. No. LIB3168-067-P1-K1-G11 Seq. ID BLASTX Method g2245032 NCBI GI BLAST score 213 5.0e-17 E value 95 Match length 47 % identity NCBI Description (Z97342) gibberellin oxidase homolog [Arabidopsis thaliana] Seq. No. 145961 LIB3168-067-P1-K1-G2 Seq. ID Method BLASTX q1169476 NCBI GI 633 BLAST score 3.0e-66 E value 121 Match length 100 % identity ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE NCBI Description ADHESION PROTEIN 1) (PVN1) >gi 439577 (U04632) vitronectin-like adhesion protein [Nicotiana tabacum] Seq. No. 145962 Seq. ID LIB3168-067-P1-K1-G3 Method BLASTX g112682 NCBI GI BLAST score 679 1.0e-71 E value Match length 158 82 % identity 12S SEED STORAGE PROTEIN PRECURSOR >gi\_81605\_pir\_\_S08510 NCBI Description cruciferin precursor (CRB) - Arabidopsis thaliana >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis thaliana] >gi\_808937\_emb\_CAA32494\_ (X14313) 12S seed storage protein [Arabidopsis thaliana] Seq. No. 145963 LIB3168-067-P1-K1-G5 Seq. ID BLASTX Method NCBI GI q1628583 BLAST score 558 2.0e-57 E value 118 Match length 92 % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 145964 Seq. No. LIB3168-067-P1-K1-G6 Seq. ID Method BLASTN g2894557 NCBI GI BLAST score 323

0.0e+00

```
401
Match length
                    99
% identity
                    Arabidopsis thaliana DNA chromosome 4, BAC clone T805
NCBI Description
                    (ESSAII project)
                    145965
Seq. No.
                    LIB3168-067-P1-K1-G7
Seq. ID
Method
                    BLASTX
NCBI GI
                    g119143
BLAST score
                    791
E value
                    3.0e-87
Match length
                    164
                    100
% identity
                    ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA)
NCBI Description
                    >gi_81606_pir__S06724 translation elongation factor eEF-1
alpha chain - Arabidopsis thaliana >gi_295788_emb_CAA34453_
                    (X16430) elongation factor 1-alpha [Arabidopsis thaliana]
                    >gi_1369927_emb_CAA34454_ (X16431) elongation factor
1-alpha [Arabidopsis thaliana] >gi_1369928_emb_CAA34455
                    (X16431) elongation factor 1-alpha [Arabidopsis thaliana]
                    >gi_1532172 (U63815) EF-lalpha-A1 [Arabidopsis thaliana]
                    >gi_1532173 (U63815) EF-lalpha-A2 [Arabidopsis thaliana]
                    >gi 1532174 (U63815) EF-lalpha-A3 [Arabidopsis thaliana]
Seq. No.
                    145966
Seq. ID
                    LIB3168-067-P1-K1-H1
Method
                    BLASTX
NCBI GI
                    q2129767
                    729
BLAST score
                    2.0e-77
E value
Match length
                    156
% identity
                    vacuolar processing enzyme (EC 3.4.22.-) isozyme beta
NCBI Description
                    precursor - Arabidopsis thaliana >gi 1805364 dbj BAA09615
                    (D61394) beta-VPE [Arabidopsis thaliana]
Seq. No.
                    145967
                    LIB3168-067-P1-K1-H10
Seq. ID
Method
                    BLASTN
NCBI GI
                    a4199934
BLAST score
                    340
E value
                    0.0e+00
Match length
                    364
% identity
                    Genomic sequence for Arabidopsis thaliana BAC T3P18,
NCBI Description
                    complete sequence [Arabidopsis thaliana]
Seq. No.
                    145968
Seq. ID
                    LIB3168-067-P1-K1-H11
Method
                    BLASTX
NCBI GI
                    q1628583
BLAST score
                    596
E value
                    7.0e-62
Match length
                    120
% identity
                    (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

NCBI GI

## cruciferin seed storage protein [Arabidopsis thaliana]

```
145969
 Seq. No.
                    LIB3168-067-P1-K1-H12
 Seq. ID
 Method
                    BLASTX
                    q112681
 NCBI GI
                    638
 BLAST score
                    8.0e-67
E value
                    147
 Match length
 % identity
                    84
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
 NCBI Description
                    cruciferin precursor (CRA1) - Arabidopsis thaliana
                    >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                    thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                    storage protein [Arabidopsis thaliana]
                    145970
 Seq. No.
                    LIB3168-067-P1-K1-H2
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g112682
 BLAST score
                    652
                    2.0e-68
 E value
                    149
 Match length
                    83
 % identity
                    12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
 NCBI Description
                    cruciferin precursor (CRB) - Arabidopsis thaliana
                    >gi 166678 (M37248) 12S storage protein CRB [Arabidopsis
                    thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                    storage protein [Arabidopsis thaliana]
 Seq. No.
                    145971
                    LIB3168-067-P1-K1-H3
 Seq. ID
 Method
                    BLASTX
 NCBI GI
                    g2129657
 BLAST score
                    430
                    2.0e-42
 E value
Match length
                    119
 % identity
                    76
                    oleosin isoform - Arabidopsis thaliana
NCBI Description
                    >gi_987014_emb_CAA90877_ (Z54164) oleosin [Arabidopsis
thaliana] >gi_987016_emb_CAA90878_ (Z54165) oleosin
                    [Arabidopsis thaliana]
                    145972
 Seq. No.
                    LIB3168-067-P1-K1-H4
 Seq. ID
                    BLASTX
Method
                    g4454043
 NCBI GI
 BLAST score
                    347
                    1.0e-32
 E value
Match length
                    145
                    48
 % identity
                    (AL035394) putative receptor kinase [Arabidopsis thaliana]
 NCBI Description
                    145973
 Seq. No.
                    LIB3168-067-P1-K1-H5
 Seq. ID
Method
                    BLASTN
```

g3510345

```
BLAST score
                  295
                  1.0e-165
E value.
Match length
                  359
                  96
% identity
                  Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone:
NCBI Description
                  MNJ8, complete sequence [Arabidopsis thaliana]
                  145974
Seq. No.
Seq. ID
                  LIB3168-067-P1-K1-H7
Method
                  BLASTX
NCBI GI
                  g4455210
                  378
BLAST score
E value
                  2.0e-36
Match length
                  131
                  66
% identity
NCBI Description
                  (AL035440) putative aspartate-tRNA ligase [Arabidopsis
                  thaliana]
                  145975
Seq. No.
Seq. ID
                  LIB3168-067-P1-K1-H9
Method
                  BLASTN
NCBI GI
                  g3033373
BLAST score
                  292
                  1.0e-163
E value
Match length
                  368
                  98
% identity
NCBI Description
                  Arabidopsis thaliana chromosome II BAC F19I3 genomic
                  sequence, complete sequence [Arabidopsis thaliana]
                  145976
Seq. No.
Seq. ID
                  LIB3168-068-P1-K1-A1
Method
                  BLASTX
NCBI GI
                  g544424
BLAST score
                  434
E value
                  5.0e-43
                  85
Match length
% identity
                  99
NCBI Description
                  GLYCINE-RICH RNA-BINDING PROTEIN 7 >gi_419755_pir__S30147
                  glycine-rich protein (clone AtGRP7) - Arabidopsis thaliana
                  >gi_16301_emb_CAA78711_ (Z14987) glycine rich protein
                  [Arabidopsis thaliana] >gi_166837 (L00648) RNA-binding
                  protein [Arabidopsis thaliana]
                  >gi 4567224 gb AAD23639.1 AC007119 5 (AC007119)
                  glycine-rich RNA binding protein 7 [Arabidopsis thaliana]
                  145977
Seq. No.
Seq. ID
                  LIB3168-068-P1-K1-A10
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  630
                  5.0e-66
E value
Match length
                  127
                  95
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
```

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
145978
Seq. No.
                  LIB3168-068-P1-K1-A11
Seq. ID
Method
                  BLASTX
NCBI GI
                  q1169476
BLAST score
                  636
                  1.0e-66
E value
Match length
                  124
% identity
NCBI Description
                  ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA) (VITRONECTIN-LIKE
                  ADHESION PROTEIN 1) (PVN1) >gi_439577 (U04632)
                  vitronectin-like adhesion protein [Nicotiana tabacum]
Seq. No.
                  145979
                  LIB3168-068-P1-K1-A2
Seq. ID
Method
                  BLASTX
                  g1628583
NCBI GI
BLAST score
                  652
                  1.0e-68
E value
Match length
                  127
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145980
Seq. No.
                  LIB3168-068-P1-K1-A3
Seq. ID
                  BLASTX
Method
                  g112741
NCBI GI
BLAST score
                  702
E value
                  2.0e-74
Match length
                  132
% identity
                  99
                  2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                  PROTEIN) >gi_68855_pir__NWMU3 2S albumin 3 precursor -
                  Arabidopsis thaliana >gi_166616 (M22033) albumin 2S subunit
                  3 precursor [Arabidopsis thaliana] >gi_395201_emb_CAA80868_
                  (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]
                  >gi_4490712_emb_CAB38846.1_ (AL035680) NWMU3-2S albumin 3
                  precursor [Arabidopsis thaliana]
Seq. No.
                  145981
Seq. ID
                  LIB3168-068-P1-K1-A4
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  603
E value
                  9.0e-63
Match length
                  117
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi_2842495_emb_CAA16892_ (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  145982
Seq. No.
                  LIB3168-068-P1-K1-A5
Seq. ID
Method
                  BLASTX
NCBI GI
                  g112682
```

E value

Match length

3.0e-30

```
E value
                   1.0e-56
Match length
                   115
                   90
% identity
                   12S SEED STORAGE PROTEIN PRECURSOR >gi_81605_pir__S08510
NCBI Description
                   cruciferin precursor (CRB) - Arabidopsis thaliana
                   >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                   thaliana] >gi 808937 emb_CAA32494_ (X14313) 12S seed
                   storage protein [Arabidopsis thaliana]
Seq. No.
                   145983
                   LIB3168-068-P1-K1-A6
Seq. ID.
Method
                   BLASTX
NCBI GI
                   q112681
BLAST score
                   604
                   7.0e-63
E value
Match length
                   139
                   84
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
NCBI Description
                   cruciferin precursor (CRA1) - Arabidopsis thaliana
                   >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                   thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                   storage protein [Arabidopsis thaliana]
                   145984
Seq. No.
Seq. ID
                   LIB3168-068-P1-K1-A7
Method
                  BLASTN
NCBI GI
                   q2337888
BLAST score
                   346
                   0.0e + 00
E value
                   357
Match length
                   99
% identity
                  Genomic sequence for Arabidopsis thaliana BAC F14J16,
NCBI Description
                   complete sequence [Arabidopsis thaliana]
                   145985
Seq. No.
                   LIB3168-068-P1-K1-A8
Seq. ID
Method
                   BLASTX
NCBI GI
                   g112739
BLAST score
                   457
E value
                   1.0e-45
Match length
                   114
% identity
                   79 --
                  2S SEED STORAGE PROTEIN 2 PRECURSOR (2S ALBUMIN STORAGE
NCBI Description
                   PROTEIN) >gi 68854 pir NWMU2 2S albumin 2 precursor -
                  Arabidopsis thaliana >gi_166615 (M22033) albumin 2S subunit
                   2 precursor [Arabidopsis thaliana] >gi_395205_emb_CAA80871_
                   (Z24745) 2S albumin isoform 2 [Arabidopsis thaliana]
                   >gi_4490711_emb_CAB38845.1_ (AL035680) NWMU2-2S albumin 2
                   precursor [Arabidopsis thaliana]
                   145986
Seq. No.
                  LIB3168-068-P1-K1-A9
Seq. ID
Method
                   BLASTX
NCBI GI
                   q1628583
BLAST score
                   323
```

76 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 145987 Seq. No. LIB3168-068-P1-K1-B1 Seq. ID Method BLASTX NCBI GI q1628583 BLAST score 574 E value 2.0e-59 Match length 137 82 % identity (U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 145988 LIB3168-068-P1-K1-B10 Seq. ID Method BLASTX NCBI GI q112737 596 BLAST score 6.0e-62 E value Match length 140 % identity 84 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE NCBI Description PROTEIN) >gi\_68853\_pir\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi 4490710 emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana] Seq. No. 145989 LIB3168-068-P1-K1-B11 Seq. ID Method BLASTX NCBI GI q112741 BLAST score 511 2.0e-56 E value Match length 133 % identity 82 NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor -Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_ (Z24744) 2S albumin isoform 3 [Arabidopsis thaliana] >gi 4490712 emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3 precursor [Arabidopsis thaliana] 145990 Seq. No. Seq. ID LIB3168-068-P1-K1-B12

 Seq. No.
 145990

 Seq. ID
 LIB3168-068-P1-K1-B12

 Method
 BLASTX

 NCBI GI
 g1628583

 BLAST score
 604

 E value
 7.0e-63

 Match length
 120

97

% identity

(U66916) 12S cruciferin seed storage protein [Arabidopsis NCBI Description thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] Seq. No. 145991 LIB3168-068-P1-K1-B2 Seq. ID Method BLASTX NCBI GI q112681 BLAST score 548 3.0e-56 E value Match length 147 79 % identity 12S SEED STORAGE PROTEIN PRECURSOR >qi 81604 pir S08509 NCBI Description cruciferin precursor (CRA1) - Arabidopsis thaliana >gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi\_808936\_emb\_CAA32493\_ (X14312) 12S seed storage protein [Arabidopsis thaliana] 145992 Seq. No. Seq. ID LIB3168-068-P1-K1-B3 BLASTX Method NCBI GI q1628583 BLAST score 621 E value 7.0e-65 Match length. 120 % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 145993 Seq. No. LIB3168-068-P1-K1-B4 Seq. ID Method BLASTX NCBI GI g1079136 BLAST score 168 E value 1.0e-11 Match length 54 % identity RNA-binding protein cabeza - fruit fly (Drosophila NCBI Description melanogaster) >gi\_532788 (U13178) RNA binding protein [Drosophila melanogaster] >gi\_567106 (L37083) RNA binding protein [Drosophila melanogaster] 145994 Seq. No. LIB3168-068-P1-K1-B5 Seq. ID Method BLASTX

NCBI GI g112737 BLAST score 406

E value 1.0e-39 138 Match length 62 % identity

2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE NCBI Description

PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana]

>gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

Match length

NCBI Description

% identity

147

## precursor [Arabidopsis thaliana]. 145995 Seq. No. LIB3168-068-P1-K1-B6 Seq. ID Method BLASTX g112737 NCBI GI 562 BLAST score 6.0e-58 E value 118 Match length % identity 90 NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi 4490710 emb CAB38844.1\_ (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana] 145996 Seq. No. LIB3168-068-P1-K1-B7 Seq. ID Method BLASTX NCBI GI g112737 BLAST score 566 E value 2.0e-58 Match length 123 % identity នន NCBI Description 2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor -Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi 395204 emb\_CAA80870\_ (Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi 4490710 emb CAB38844.1 (AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana] 145997 Seq. No. LIB3168-068-P1-K1-B8 Seq. ID Method BLASTX NCBI GI g1628583 BLAST score 631 E value 4.0e-66 Match length 124 % identity NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis thaliana] >gi 2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana] 145998 Seq. No. Seq. ID LIB3168-068-P1-K1-B9 Method BLASTX NCBI GI q1628583 BLAST score 584 E value 2.0e-60

(U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S cruciferin seed storage protein [Arabidopsis thaliana]

```
145999
Seq. No.
Seq. ID
                  LIB3168-068-P1-K1-C1
                  BLASTX
Method
                  g1628583
NCBI GI
BLAST score
                  621
                  7.0e-65
E value
                  120
Match length
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  146000
Seq. No.
                  LIB3168-068-P1-K1-C10
Seq. ID
                  BLASTX
Method
NCBI GI
                  q484640
BLAST score
                  169
E value
                  8.0e-12
Match length
                  31
                  97
% identity
NCBI Description
                  2S albumin, AT2S5 - Arabidopsis thaliana (fragment)
Seq. No.
                  146001
Seq. ID
                  LIB3168-068-P1-K1-C11
                  BLASTX
Method
NCBI GI
                  q112681
BLAST score
                  611
E value
                  1.0e-63
Match length
                  141
                  84
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir_ S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  146002
Seq. No.
Seq. ID
                  LIB3168-068-P1-K1-C2
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  620
E value
                  9.0e-65
                  120
Match length
                  99
% identity
NCBI Description
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
                  146003
Seq. No.
Seq. ID
                  LIB3168-068-P1-K1-C4
Method
                  BLASTX
                  g112737
NCBI GI
BLAST score
                  571
                  5.0e-59
E value
Match length
                  142
                  79
% identity
```

NCBI Description

2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68853\_pir\_\_NWMU1 2S albumin 1 precursor - Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_(AL035680) NWMU1-2S albumin 1 precursor [Arabidopsis thaliana]

Seq. No.

146004

Seq. ID

LIB3168-068-P1-K1-C5

Method NCBI GI BLAST score E value BLASTX g112737 250

Match length % identity

2.0e-21 111 50

NCBI Description

2S SEED STORAGE PROTEIN 1 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68853\_pir\_\_ NWMU1 2S albumin 1 precursor - Arabidopsis thaliana >gi\_166614 (M22033) albumin 2S subunit 1 precursor [Arabidopsis thaliana] >gi\_395204\_emb\_CAA80870\_(Z24745) 2S albumin isoform 1 [Arabidopsis thaliana] >gi\_4490710\_emb\_CAB38844.1\_ (AL035680) NWMU1-2S albumin 1

precursor [Arabidopsis thaliana]

Seq. No.

146005

Seq. ID LIB3168-068-P1-K1-C6

Method BLASTX
NCBI GI g112741
BLAST score 688
E value 1.0e-72
Match length 135
% identity 95

NCBI Description 2S SEED STORAGE PROTEIN 3 PRECURSOR (2S ALBUMIN STORAGE PROTEIN) >gi\_68855\_pir\_\_NWMU3 2S albumin 3 precursor -

Arabidopsis thaliana >gi\_166616 (M22033) albumin 2S subunit 3 precursor [Arabidopsis thaliana] >gi\_395201\_emb\_CAA80868\_

(Z24744) 2S albumin isoform 3 [Arabidopsis thaliana]

>gi\_4490712\_emb\_CAB38846.1\_ (AL035680) NWMU3-2S albumin 3

precursor [Arabidopsis thaliana]

Seq. No. 146006

Seq. ID LIB3168-068-P1-K1-C7

Method BLASTX
NCBI GI g112681
BLAST score 564
E value 3.0e-58
Match length 134
% identity 82

NCBI Description 12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509

cruciferin precursor (CRA1) - Arabidopsis thaliana

>gi\_166676 (M37247) 12S storage protein CRA1 [Arabidopsis thaliana] >gi\_808936\_emb\_CAA32493 (X14312) 12S seed

storage protein [Arabidopsis thaliana]

Seq. No. 146007

Seq. ID LIB3168-068-P1-K1-C8

Method BLASTX

```
q1854581
NCBI GI
BLAST score
                  224
                  1.0e-18
E value
Match length
                  68
% identity
                  66
                  (L24120) peroxidase precursor [Linum usitatissimum]
NCBI Description
Seq. No.
                  146008
Seq. ID
                  LIB3168-068-P1-K1-D1
Method
                  BLASTX
NCBI GI
                  g1628583
BLAST score
                  205
E value
                  5.0e-16
Match length
                  153
                  42
% identity
                  (U66916) 12S cruciferin seed storage protein [Arabidopsis
NCBI Description
                  thaliana] >gi 2842495 emb CAA16892 (AL021749) 12S
                  cruciferin seed storage protein [Arabidopsis thaliana]
Seq. No.
                  146009
Seq. ID
                  LIB3168-068-P1-K1-D10
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  721
E value
                  1.0e-76
Match length
                  143
                  98
% identity
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604 pir_S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  146010
Seq. ID
                  LIB3168-068-P1-K1-D11
Method
                  BLASTX
NCBI GI
                  g112681
BLAST score
                  597
E value
                  5.0e-62
                  139
Match length
% identity
                  83
                  12S SEED STORAGE PROTEIN PRECURSOR >gi_81604_pir__S08509
NCBI Description
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi 166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi 808936 emb CAA32493 (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  146011
Seq. ID
                  LIB3168-068-P1-K1-D12
                  BLASTX
Method
NCBI GI
                  q1628583
```

Seq. ID LIB3168-068-P1-K1-D12

Method BLASTX

NCBI GI g1628583

BLAST score 43

E value 2.0e-44

Match length 112

% identity 86

NCBI Description (U66916) 12S cruciferin seed storage protein [Arabidopsis

thaliana] >gi\_2842495\_emb\_CAA16892\_ (AL021749) 12S

614

## cruciferin seed storage protein [Arabidopsis thaliana]

```
Seq. No.
                  146012
Seq. ID
                  LIB3168-068-P1-K1-D2
Method
                  BLASTN
NCBI GI
                  q4519191
BLAST score
                  423
E value
                  0.0e+00
Match length
                  433
% identity
                  99
                  Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:
NCBI Description
                  K9P8, complete sequence
Seq. No.
                  146013
                  LIB3168-068-P1-K1-D4
Seq. ID
Method
                  BLASTX
NCBI GI
                  q112681
BLAST score
                  604
E value
                  7.0e-63
Match length
                  140
                  84
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81604 pir S08509
                  cruciferin precursor (CRA1) - Arabidopsis thaliana
                  >gi_166676 (M37247) 12S storage protein CRA1 [Arabidopsis
                  thaliana] >gi_808936_emb_CAA32493_ (X14312) 12S seed
                  storage protein [Arabidopsis thaliana]
                  146014
Seq. No.
Seq. ID
                  LIB3168-068-P1-K1-D5
Method
                  BLASTX
NCBI GI
                  q112682
BLAST score
                  627
E value
                  1.0e-65
Match length
                  138
                  88
% identity
NCBI Description
                  12S SEED STORAGE PROTEIN PRECURSOR >gi 81605 pir S08510
                  cruciferin precursor (CRB) - Arabidopsis thaliana
                  >gi_166678 (M37248) 12S storage protein CRB [Arabidopsis
                  thaliana] >gi_808937_emb_CAA32494_ (X14313) 12S seed
                  storage protein [Arabidopsis thaliana]
Seq. No.
                  146015
Seq. ID
                  LIB3168-068-P1-K1-D6
Method
                  BLASTN
NCBI GI
                  q2182287
BLAST score
                  414
E value
                  0.0e+00
Match length
                  429
% identity
                  99
NCBI Description
                  Genomic sequence for Arabidopsis thaliana BAC T7N9,
                  complete sequence [Arabidopsis thaliana]
Seq. No.
                  146016
Seq. ID
                  LIB3168-068-P1-K1-D7
Method
                  BLASTX
NCBI GI
                  g112741
```